



STIC Search Report

EIC 2600

STIC Database Tracking Number: 170606

TO: Phylesha L Dabney
Location: KNX-6D68
Art Unit : 2646
Friday, November 04, 2005

Case Serial Number: 09610284

From: Samir Patel
Location: EIC 2600
KNX-8B68
Phone: 571-272-3537

Samir.patel@uspto.gov

Search Notes

Dear Examiner,

Attached are the search results (from commercial databases) for your case.

Tags mark the patent/articles, which might be of interest. After you review all records including tagged and untagged records, if you wish to order the complete text of any record, please submit request(s) directly to the STIC-EIC 2600 Email Box.

Please call if you have any questions or suggestions, and I have enclosed a Search Results Feedback Form to facilitate further comments or suggestions.

Thanks

Samir Patel



RUSH SPE SIGNATURE _____

Access DB# 170606

SEARCH REQUEST FORM

Scientific and Technical Information Center

EIC 2600

Requester's Full Name Phylesha Dabney Examiner # 76588 Date _____
Art Unit _____ Phone Number _____ Serial Number 09/610284
Office Location _____ Format preferred (circle) PAPER EMAIL BOTH

FNX 6D68
If more than one search is submitted, please prioritize searches in order of need.
.....

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Let us know what you already have and so do not need. Include the keywords, synonyms and meaning of acronyms. Define all terms that may have a specific meaning. Please attach a copy of the background, abstract, claims and other pertinent information.

Please state how the terms or keyword strings should relate to one another.

Title of the Invention _____

Inventor(s) _____

Earliest Priority date to be used _____

Please add (two or more) (SN) (memory or register or RAM or EEPROM or ROM) in last search.

STAFF USE ONLY

Searcher Samir Patel TYPE of Search
Phone 2-3537 Text ☒
Location FNX 8868 Litigation _____
Date picked up 3:00 p.m. / 11/03 Other _____
Date completed 9:30 a.m. / 11/04
Search Prep/review 30
Online Time 150

Databases Searched

Dialog ☒
STN _____
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Dabney, Phylesha L.

From: PLUS
Sent: Wednesday, November 02, 2005 10:19 AM
To: Dabney, Phylesha L.
Subject: PLUS Results for 09610284

Here are the PLUS search results for 09610284.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



09610284_Q
UAL.txt



09610284_LI
ST.txt



09610284_W
EST.txt



09610284_E
AST.txt



09610284.ea
st



09610284_C
LS.txt



09610284_C 09610284_W
LSTITLES.txt DS.txt

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 09610284 on November 02, 2005

45	381/328	(16 OR, 29 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/312	HEARING AIDS, ELECTRICAL
	381/322	.Specified casing or housing
	381/328	..Ear insert
38	381/322	(6 OR, 32 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/312	HEARING AIDS, ELECTRICAL
	381/322	.Specified casing or housing
30	381/312	(6 OR, 24 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/312	HEARING AIDS, ELECTRICAL
26	600/25	(16 OR, 10 XR)
	Class	600 : SURGERY
	600/25	SURGICALLY IMPLANTED VIBRATORY HEARING AID
16	381/315	(10 OR, 6 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/312	HEARING AIDS, ELECTRICAL
	381/315	.Remote control, wireless, or alarm
16	381/323	(7 OR, 9 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/312	HEARING AIDS, ELECTRICAL
	381/322	.Specified casing or housing
	381/323	..Power supply or programming interface terminals
16	607/57	(5 OR, 11 XR)
	Class	607 : SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION
	607/1	LIGHT, THERMAL, AND ELECTRICAL APPLICATION
	607/2	.Electrical therapeutic systems
	607/55	..Promoting auditory function
	607/56	...Producing aural effects by stimulation
	607/57By partially or wholly implanted device
15	381/60	(6 OR, 9 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/58	MONITORING/MEASURING OF AUDIO DEVICES
	381/60	.Testing of hearing aids
13	181/130	(5 OR, 8 XR)
	Class	181 : ACOUSTICS
	181/126	ANATOMIC OR PROSTHETIC RELATION
	181/128	.Ear and mouth
	181/130	..Auditory canal insert
13	381/330	(3 OR, 10 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS

381/312 AND DEVICES
 381/322 HEARING AIDS, ELECTRICAL
 381/330 .Specified casing or housing
 ..Hook over ear

12 181/135 (6 OR, 6 XR)
 Class 181 : ACOUSTICS
 181/126 ANATOMIC OR PROSTHETIC RELATION
 181/128 .Ear and mouth
 181/130 ..Auditory canal insert
 181/135 ...Ear insert

12 379/52 (1 OR, 11 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/52 INCLUDING AID FOR HANDICAPPED USER (E.G.,
 VISUAL, TACTILE, HEARING AID COUPLING)

12 381/314 (8 OR, 4 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/314 .Programming interface circuitry

12 381/326 (3 OR, 9 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/322 .Specified casing or housing
 381/326 ..Non-air-conducted sound delivery

9 381/325 (5 OR, 4 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/322 .Specified casing or housing
 381/325 ..Cerumen protection

8 381/324 (4 OR, 4 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/322 .Specified casing or housing
 381/324 ..Component mounting

7 73/585 (2 OR, 5 XR)
 Class 073 : MEASURING AND TESTING
 73/570 VIBRATION
 73/584 .By mechanical waves
 73/585 ..Including ear or hearing testing

7 181/129 (2 OR, 5 XR)
 Class 181 : ACOUSTICS
 181/126 ANATOMIC OR PROSTHETIC RELATION
 181/128 .Ear and mouth
 181/129 ..Ear

7 381/321 (2 OR, 5 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/321 .Wideband gain control

7 600/559 (2 OR, 5 XR)

- Class 600 : SURGERY
600/300 DIAGNOSTIC TESTING
600/559 .Ear or testing by auditory stimulus
- 6 181/136 (4 OR, 2 XR)
Class 181 : ACOUSTICS
181/126 ANATOMIC OR PROSTHETIC RELATION
181/128 .Ear and mouth
181/136 ..Deflector type
- 6 381/313 (1 OR, 5 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/312 HEARING AIDS, ELECTRICAL
381/313 .Directional
- 6 381/320 (2 OR, 4 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/312 HEARING AIDS, ELECTRICAL
381/320 .Spectral control
- 5 381/327 (1 OR, 4 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/312 HEARING AIDS, ELECTRICAL
381/322 .Specified casing or housing
381/327 ..Spectacle
- 5 381/79 (0 OR, 5 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/77 ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION
381/79 .Near field
- 5 623/10 (1 OR, 4 XR)
Class 623 : PROSTHESIS
623/10 EAR OR NOSE PROSTHESIS
- 4 330/277 (3 OR, 1 XR)
Class 330 : AMPLIFIERS
330/250 WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G.,
TRANSISTOR)
330/277 .Including field effect transistor
- 4 381/120 (2 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/120 WITH AMPLIFIER
- 4 381/329 (3 OR, 1 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/312 HEARING AIDS, ELECTRICAL
381/322 .Specified casing or housing
381/328 ..Ear insert
381/329 ...Device for manipulation
- 3 128/864 (1 OR, 2 XR)
Class 128 : SURGERY
128/846 BODY PROTECTING OR RESTRAINING DEVICES FOR
PATIENTS OR INFANTS (E.G., SHIELDS, IMMOBILIZERS)
128/857 .Head or face protector (e.g., lips, ears,

etc.)

- 128/864 ..Aural protectors (e.g., ear)
- 3 206/704 (2 OR, 1 XR)
 Class 206 : SPECIAL RECEPTACLE OR PACKAGE
 206/701 HOLDER FOR A REMOVABLE ELECTRICAL COMPONENT
 206/703 ..For a battery
 206/704 ..Button battery (e.g., watch battery)
- 3 338/164 (0 OR, 3 XR)
 Class 338 : ELECTRICAL RESISTORS
 338/68 MECHANICALLY VARIABLE (E.G., RHEOSTAT)
 338/118 ..Movable contact electrically adjustable over
 length of resistance element
 338/160 ..Contact slides along in contact with element
 338/162 ...Contact angularly slidable
 338/164 Hermetically sealed housing
- 3 381/106 (1 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/104 INCLUDING AMPLITUDE OR VOLUME CONTROL
 381/106 ..With amplitude compression/expansion
- 3 381/23.1 (1 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/1 BINAURAL AND STEREOPHONIC
 381/23.1 ..Hearing aid
- 3 381/331 (1 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/322 ..Specified casing or housing
 381/331 ..Inductive pickup
- 3 381/380 (1 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/182 ..Plural or compound reproducers
 381/370 ..Headphone
 381/374 ...Particular support structure
 381/380 Ear insert or bone conduction
- 3 381/381 (2 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/182 ..Plural or compound reproducers
 381/370 ..Headphone
 381/374 ...Particular support structure
 381/381 Hook over ear or spectacle
- 3 381/58 (1 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/58 MONITORING/MEASURING OF AUDIO DEVICES
- 3 473/212 (1 OR, 2 XR)
 Class 473 : GAMES USING TANGIBLE PROJECTILE

- 473/131 GOLF
 473/207 .Practice device attachable to body
 473/212 ..Attachable to arm, hand, or wrist
- 3 607/55 (0 OR, 3 XR)
 Class 607 : SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION
 607/1 LIGHT, THERMAL, AND ELECTRICAL APPLICATION
 607/2 .Electrical therapeutic systems
 607/55 ..Promoting auditory function
- 3 607/56 (1 OR, 2 XR)
 Class 607 : SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION
 607/1 LIGHT, THERMAL, AND ELECTRICAL APPLICATION
 607/2 .Electrical therapeutic systems
 607/55 ..Promoting auditory function
 607/56 ...Producing aural effects by stimulation
- 3 704/205 (0 OR, 3 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 SPEECH SIGNAL PROCESSING
 704/201 .For storage or transmission
 704/205 ..Frequency
- 2 73/146.5 (0 OR, 2 XR)
 Class 073 : MEASURING AND TESTING
 73/146 TIRE, TREAD OR ROADWAY
 73/146.2 .Tire inflation testing installation
 73/146.3 ..By direct fluid pressure reading
 73/146.4 ...Telemetric (e.g., indicator on cowl)
 73/146.5Electric
- 2 73/40 (1 OR, 1 XR)
 Class 073 : MEASURING AND TESTING
 73/37 WITH FLUID PRESSURE
 73/40 .Leakage
- 2 84/473 (2 OR, 0 XR)
 Class 084 : MUSIC
 84/453 ACCESSORIES
 84/470R .Teaching devices
 84/471R ..Charts or boards
 84/473 ...With transposing slide
- 2 128/205.23 (1 OR, 1 XR)
 Class 128 : SURGERY
 128/200.24 RESPIRATORY METHOD OR DEVICE
 128/204.18 .Means for supplying respiratory gas under positive pressure
 128/205.23 ..Indicator structure
- 2 181/134 (0 OR, 2 XR)
 Class 181 : ACOUSTICS
 181/126 ANATOMIC OR PROSTHETIC RELATION
 181/128 .Ear and mouth
 181/130 ..Auditory canal insert
 181/134 ...Eardrum
- 2 181/160 (0 OR, 2 XR)
 Class 181 : ACOUSTICS

- 181/157 DIAPHRAGM
181/160 .With resonant chamber
- 2 273/DIG 30 (0 OR, 2 XR)
Class 273 : AMUSEMENT DEVICES: GAMES
273/DIG 30 HOOKED PILE FABRIC FASTENER
- 2 320/103 (2 OR, 0 XR)
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING
OR DISCHARGING
320/103 ONE CELL OR BATTERY CHARGES ANOTHER
- 2 320/DIG 26 (0 OR, 2 XR)
Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING
OR DISCHARGING
320/DIG 26 BUTTON OR HEARING AID TYPE
- 2 330/296 (0 OR, 2 XR)
Class 330 : AMPLIFIERS
330/250 WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G.,
TRANSISTOR)
330/296 .Including particular biasing arrangement
- 2 330/297 (0 OR, 2 XR)
Class 330 : AMPLIFIERS
330/250 WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G.,
TRANSISTOR)
330/297 .Including particular power supply circuitry
- 2 338/162 (1 OR, 1 XR)
Class 338 : ELECTRICAL RESISTORS
338/68 MECHANICALLY VARIABLE (E.G., RHEOSTAT)
338/118 .Movable contact electrically adjustable over
length of resistance element
338/160 ..Contact slides along in contact with element
338/162 ...Contact angularly slidable
- 2 338/163 (1 OR, 1 XR)
Class 338 : ELECTRICAL RESISTORS
338/68 MECHANICALLY VARIABLE (E.G., RHEOSTAT)
338/118 .Movable contact electrically adjustable over
length of resistance element
338/160 ..Contact slides along in contact with element
338/162 ...Contact angularly slidable
338/163With knob forming casing or covering
- 2 338/172 (0 OR, 2 XR)
Class 338 : ELECTRICAL RESISTORS
338/68 MECHANICALLY VARIABLE (E.G., RHEOSTAT)
338/118 .Movable contact electrically adjustable over
length of resistance element
338/160 ..Contact slides along in contact with element
338/162 ...Contact angularly slidable
338/172With switching
- 2 338/184 (0 OR, 2 XR)
Class 338 : ELECTRICAL RESISTORS
338/68 MECHANICALLY VARIABLE (E.G., RHEOSTAT)
338/118 .Movable contact electrically adjustable over
length of resistance element

- 338/184 ..With housing
- 2 338/198 (2 OR, 0 XR)
 Class 338 : ELECTRICAL RESISTORS
 338/68 MECHANICALLY VARIABLE (E.G., RHEOSTAT)
 338/198 ..With switch actuated by resistor actuator
- 2 338/202 (0 OR, 2 XR)
 Class 338 : ELECTRICAL RESISTORS
 338/202 MOVABLE CONTACT STRUCTURE
- 2 340/384.72 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/384.1 AUDIBLE INDICATION
 340/384.7 ..Electronic
 340/384.72 ..Plural generators
- 2 340/407.1 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/407.1 TACTUAL INDICATION
- 2 340/448 (2 OR, 0 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS
 340/438 ..Internal alarm or indicator responsive to a
 condition of the vehicle
 340/442 ..Tire deflation or inflation
 340/445 ...With particular telemetric coupling
 340/448 Inductive
- 2 340/825.19 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/825.19 ..Communication or control for the handicapped
- 2 340/825.69 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/825.57 ..Pulse responsive actuation
 340/825.62 ..Serial
 340/825.69 ...Radio link
- 2 340/825.72 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/825.71 ..Frequency responsive actuation
 340/825.72 ...Wireless link
- 2 343/841 (0 OR, 2 XR)
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
 343/700R ANTENNAS
 343/841 ..With electrical shield
- 2 379/441 (1 OR, 1 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/441 TERMINAL ACCESSORY OR AUXILIARY EQUIPMENT
- 2 379/443 (1 OR, 1 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/441 TERMINAL ACCESSORY OR AUXILIARY EQUIPMENT
 379/443 ..Including coupler (e.g., inductive)

- 2 379/447 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/441 TERMINAL ACCESSORY OR AUXILIARY EQUIPMENT
 379/447 .Attachable to terminal housing
- 2 379/450 (1 OR, 1 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/441 TERMINAL ACCESSORY OR AUXILIARY EQUIPMENT
 379/447 .Attachable to terminal housing
 379/450 ..Clips onto terminal structure
- 2 381/113 (1 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/111 CIRCUITRY COMBINED WITH SPECIFIC TYPE
 MICROPHONE OR LOUDSPEAKER
 381/113 .With electrostatic microphone
- 2 381/151 (1 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/151 .Body contact wave transfer (e.g., bone
 conduction earphone, larynx microphone)
- 2 381/174 (1 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/369 .Microphone capsule only
 381/174 ..Capacitive
- 2 381/189 (1 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/189 .Having protective or sheilding feature
- 2 381/191 (1 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/191 .Having electrostatic element (e.g., electret,
 vibrating plate)
- 2 381/301 (1 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/1 BINAURAL AND STEREOPHONIC
 381/300 .Stereo speaker arrangement
 381/301 ..In furniture or clothing
- 2 381/316 (1 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/316 .Frequency transposition
- 2 381/317 (2 OR, 0 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/317 .Noise compensation circuit

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- 2 381/382 (0 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/182 .Plural or compound reproducers
 381/370 ..Headphone
 381/374 ...Particular support structure
 381/382Sound conducting tube

- 2 381/98 (0 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/98 INCLUDING FREQUENCY CONTROL

- 2 439/500 (2 OR, 0 XR)
 Class 439 : ELECTRICAL CONNECTORS
 439/500 ENERGY CELL SUBSTITUTION DEVICE INCLUDING
 PLURAL CONTACTS (E.G., JUMPER) OR WITH SUPPORT MEANS FOR
 ENERGY CELL

- 2 455/100 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/91 TRANSMITTER
 455/95 .Mobile or portable
 455/100 ..Body attached or connected

- 2 455/350 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
 CONVERTER
 455/347 .Cabinet, housing, or chassis structure
 455/350 ..With particular speaker mounting

- 2 455/351 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
 CONVERTER
 455/347 .Cabinet, housing, or chassis structure
 455/351 ..Transportable

- 2 455/575.5 (1 OR, 1 XR)
 Class 455 : TELECOMMUNICATIONS
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
 TRANSCIVER)
 455/550.1 .Radiotelephone equipment detail
 455/575.1 ..Housing or support
 455/575.5 ...Antenna shielding

- 2 455/90.3 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/554.1 ..Remote private branch exchange (PBX) with
 wireless link to landline
 455/90.3 .Having particular housing or support of a
 transceiver

- 2 473/215 (0 OR, 2 XR)
 Class 473 : GAMES USING TANGIBLE PROJECTILE
 473/131 GOLF
 473/207 .Practice device attachable to body
 473/215 ..Attachable to hips, torso, or waist

- 2 600/27 (1 OR, 1 XR)

Class 600 : SURGERY
 600/26 SLEEP OR RELAXATION INDUCING THERAPY (e.g.,
 direct nerve stimulation, hypnosis, analgesia)
 600/27 .Sensory (e.g., visual, audio, tactile, etc.)

2 607/137 (2 OR, 0 XR)
 Class 607 : SURGERY: LIGHT, THERMAL, AND ELECTRICAL
 APPLICATION
 607/1 LIGHT, THERMAL, AND ELECTRICAL APPLICATION
 607/115 .Electrical energy applicator
 607/116 ..Placed in body
 607/137 ...Inner ear (e.g., cochlea)

2 607/61 (1 OR, 1 XR)
 Class 607 : SURGERY: LIGHT, THERMAL, AND ELECTRICAL
 APPLICATION
 607/1 LIGHT, THERMAL, AND ELECTRICAL APPLICATION
 607/2 .Electrical therapeutic systems
 607/61 ..Energy source outside generator body

2 704/207 (2 OR, 0 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,
 LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO
 COMPRESSION/DECOMPRESSION
 704/200 SPEECH SIGNAL PROCESSING
 704/201 .For storage or transmission
 704/205 ..Frequency
 704/206 ...Specialized information
 704/207Pitch

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 (c) 2005 ProQuest Info&Learning
 File 636:Gale Group Newsletter DB(TM) 1987-2005/Nov 03
 (c) 2005 The Gale Group
 File 647:CMP Computer Fulltext 1988-2005/Oct W4
 (c) 2005 CMP Media, LLC
 File 696:DIALOG Telecom. Newsletters 1995-2005/Nov 03

(c) 2005 Dialog
 File 674:Computer News Fulltext 1989-2005/Oct W2
 (c) 2005 IDG Communications
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 587:Jane`s Defense&Aerospace 2005/Oct W5
 (c) 2005 Jane`s Information Group

Set	Items	Description
S1	65409	HEAR???(3N) (DEVIC?? OR AID??)
S2	1680121	MICROPHON??? OR SPEAKER?? OR AMPLIFIER??
S3	119619	(IDENTIF????? OR IDENTIFICATION) (3N) (UNIT?? OR DEVIC?? OR - EQUIPMENT?? OR TERMINAL?? OR APPARATUS??) OR (CONFIGURA????? - OR SPECIFICATION??) (3N) DATA
S4	294744	(MANY OR MULTI OR MULTIPLE? ? OR NUMEROUS?? OR PLURAL?? OR PLURALIT?? OR SEVERAL? ? OR DIFFERENT?? OR BOTH?? OR TWO OR - DUAL??) (3N) (MEMOR?? OR STORAGE?? OR RAM OR ROM OR RANDOM(2N)A- CCESS(2N)MEMOR?? OR READ(2N)ONLY(2N)MEMOR?? OR EPROM OR EEPROM OR FEPROM)
S5	2039649	COMPARATOR?? OR FILTER?? OR LOGIC??
S6	0	S1(S)S2(S)S3(S)S4(S)S5
S7	0	S1(S)S2(S)S3(S)S4
S8	19	S1(S)S2(S)S4
S9	8	RD (unique items)
S10	2	S9 NOT PY>2000
S11	76	S1(S)S4
S12	38	RD (unique items)
S13	23	S12 NOT PY>2000
S14	21	S13 NOT S10
S15	334	AU=(BACHLER H? OR BACHLER, H? OR BERG C? OR BERG, C?)
S16	0	S15 AND S1 AND S4

10/3,K/1 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2005 The Gale Group. All rts. reserv.

05416605 SUPPLIER NUMBER: 60805351
MarkeTrak V: Consumer satisfaction revisited.(Brief Article) (Statistical Data Included)
Kochkin, Sergei
The Hearing Journal, 53, 1, 38
Jan, 2000
DOCUMENT TYPE: Brief Article Statistical Data Included ISSN: 0745-7472
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 4823 LINE COUNT: 01253

... likelihood of making positive recommendations. Results were inconsistent with respect to performance in noise, with **multi - microphone** and **multi - memory** product faring better in this category. Single-channel, single-response instruments scored the lowest, but...

10/3,K/2 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

00734336
AT&T International has developed the Touch-a-matic family of telephones to fit the needs and standards of the international marketplace.
Telephone Engineer & Management January 15, 1982 p. 971

...to larger phones with several easy-to-use added features. The phones can store in **memory** as **many** as 20 individual numbers, depending upon the model chosen, and retain the last number dialed...

... in specific countries is a simple step. All the sets are built with a special **microphone** , called an electret, which virtually eliminates sound distortion. The hearing-impaired have been considered in...

...matic telephones through the addition of a magnetic coupler device. People who are dependent upon **hearing aids** have difficulty using most telephones; however, with the magnetic coupler, these individuals can hear clearly...

14/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2005 The Gale Group. All rts. reserv.

01914945 Supplier Number: 25393513 (USE FORMAT 7 OR 9 FOR FULLTEXT)
TOSHIBA INTRODUCES WORLD'S FIRST 64 MB SMARTMEDIA CARD
(Toshiba introduces 64-megabyte SmartMedia card and 512-megabit NAND memory in thin small outline package, which double capacity of NAND flash products currently available; mass production will start in September 1999)

AsiaPulse News, p n/a
August 11, 1999
DOCUMENT TYPE: Custom Wire (Southern & Eastern Asia)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 451

TEXT:

...Both devices double the capacity of NAND flash products currently on the market.

At the heart of both new devices is Toshiba's latest innovation in flash memory, a 256Mb NAND chip fabricated with 0...

...State Floppy Disk Card Forum, which defines standards for SmartMedia. The 512Mb NAND TSOP flash memory consists of two 256Mb chips stacked one on top of the other, which minimizes the overall package size.

...

14/3,K/2 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

06104571 Supplier Number: 53680717 (USE FORMAT 7 FOR FULLTEXT)
Financial: Xicor 1998 Results New Long Range Plan Announced.(Company Financial Information)

EDGE: Work-Group Computing Report, pNA
Feb 1, 1999
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 2039

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...potential customers in the telecommunications and computing industries, we have defined and are currently developing several non-memory system management and analog products. These products expand two of our existing product lines. We...

...the outside foundry is in full swing. "We have also recently raised our prices on many memory products. While the year started with improved demand for our products, there is a revenue...cost of their products such as cellular telephones, pagers, notebook PCs, PDAs, Global Positioning Systems, hearing aids and medical monitors. This new type of package permits significant weight savings as well when...

14/3,K/3 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

03855897 Supplier Number: 45527997 (USE FORMAT 7 FOR FULLTEXT)

TI Unveils 16-Bit Fixed-Point DSPs

Electronic News (1991), p48

May 8, 1995

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 349

... devices target applications such as power line monitors, solid state relays, radar detectors, voicemail pagers, **hearing aids**, home security and handheld scanners. The C203 features the C2xLP core with application -enabling peripherals. The C2xLP core includes 544 words of **dual** access **RAM** and a JTAG scan path test port.

The C203 features a 16-bit timer, a...

14/3,K/4 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

02504979 Supplier Number: 43311541 (USE FORMAT 7 FOR FULLTEXT)

JVC's Elias Sees Shakeout

HFD-The Weekly Home Furnishings Newspaper, v0, n0, p135

Sept 21, 1992

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 913

... has a two-digit display indicating the number of calls received, 10-digit speed dial **memory**, **hearing aid** compatibility, **two** -way intercom and pager.

'We don't make locomotives or elevators like certain of our...

14/3,K/5 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

01952883 Supplier Number: 42496266 (USE FORMAT 7 FOR FULLTEXT)

Europe's Heart Valve Implant Market; Developments in Biological Heart Valves

The BBI Newsletter, v14, n11, pN/A

Nov 4, 1991

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 257

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...in an antibiotic solution, the tissue becomes inviable after three weeks. Even after a shorter **two** -week **storage**, tissue viability is already down to less than 15%. Liquid nitrogen storage after treatment for preservation can give up to **two** years **storage** with virtually unchanged protein synthetic functions. Using this method, CRYOLIFE (Marietta, GA) is claiming 97...

...five years in a series of 5,000 transplants. The recent FDA ruling that replacement **heart** valve allografts are **devices** subject to the same

requirements as mechanical and bioprosthetic valves, however, may restrict further developments...

14/3,K/6 (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

01056636 Supplier Number: 41169599
New GE speakerphone features memory verification, busy redial
HFD-The Weekly Home Furnishings Newspaper, v0, n0, p123
Feb 12, 1990
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade

ABSTRACT:

...suggested retail price of \$89.95.
Step-up cordless model 2-9515 has 10-number **memory** dialing, **two** -channel capability and extended battery capacity. Other features include a digital security system that prevents...

...low tone; out-of-range warning tone and cut-off circuit; two-way paging, and **hearing - aid** compatibility.
...

14/3,K/7 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 Dialog. All rts. reserv.

06524676 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Toshiba Introduces World's First 64 Mega SmartMedia Card
MAINICHI PRESS RELEASE SERVICE / ENGLISH SERVICE
August 03, 1999
JOURNAL CODE: FPRS LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 464

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... State Floppy Disk Card Forum, which defines standards for SmartMedia. The 512Mb NAND TSOP flash **memory** consists of **two** 256Mb chips stacked one on the top of the other, which minimizes the overall package...

14/3,K/8 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 Dialog. All rts. reserv.

05204017 (USE FORMAT 7 OR 9 FOR FULLTEXT)
TEC(R) Announces Multi-Memory License Agreement
PR NEWSWIRE
May 05, 1999
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 312

... is relevant to manufacturers that are already producing or are moving toward producing multi-memory **hearing aids** . Now every Digital ScrewDriver(R) programmed product automatically has a license for multiple memories at...

... cost than ever before possible. For companies that want to include multiple memories in their **hearing aids**, this substantially increases the value of the Digital ScrewDriver(R).

14/3,K/9 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

03991347 SUPPLIER NUMBER: 14236185 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Programmable aids improve hearing.
USA Today (Magazine), v122, n2581, p12(2)
Oct, 1993
ISSN: 0161-7389 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 354 LINE COUNT: 00028

... known by the general public.
Most revolutionary is the programmable aids' capacity for storing into **memory two** to eight separate responses. Using a remote control or different settings on the **hearing aid**, wearers can switch from one memory to another, depending on the listening situation. Programs can...

...the telephone, for example. "As the listening environment changes, the person can instantaneously retrieve another **hearing aid** response that is more applicable to that environment. Previous technology couldn't do that," Valente...

14/3,K/10 (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

03699425 SUPPLIER NUMBER: 11927243 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Maximum modems: 14,400 bps and rising. (Hardware Review) (overview of 10 evaluations of high-speed modems) (includes related articles on Editors' Choice winners and error-control and data-compression standards) (Evaluation)
Derfler, Frank J., Jr.; Rosch, Winn L.; Salemi, Joe; Stone, M. David; Thompson, M. Keith
PC Magazine, v11, n5, p285(25)
March 17, 1992
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 6132 LINE COUNT: 00471

... applications, are the evolutionary development that delivers V.32bis and V.fast modem speed. These **devices** are the operational **heart** of modern modems, including the ones reviewed. They allow easy upgrades through ROM swaps; this...

...be able to upgrade a V.32bis modem to V.fast just by changing a **ROM** chip. Too **many** expensive elements must be over-engineered in the lower-speed modems to allow for such...

14/3,K/11 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2005 The Gale Group. All rts. reserv.

05368775 SUPPLIER NUMBER: 58563046

Digital ScrewDriver(R) chip enhanced.

The Hearing Journal, 52, 7, 87

July, 1999

ISSN: 0745-7472

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 315

LINE COUNT: 00031

copy

... acquisition of a license to Patent #4425481. Known in the hearing health industry as the **multi - memory** Mangold patent, this is relevant to manufacturers that are already producing or are moving toward producing **multi - memory hearing aids**. Now, every Digital ScrewDriver(R) -programmed product automatically has a license for multiple memories at a lower cost. For companies that want to include multiple memories in their **hearing aids**, this license substantially increases the value of the Digital ScrewDriver.

14/3,K/12 (Item 1 from file: 98)

DIALOG(R)File 98:General Sci Abs/Full-Text

(c) 2005 The HW Wilson Co. All rts. reserv.

03279977 H.W. WILSON RECORD NUMBER: BGS196029977

Help with hearing.

AUGMENTED TITLE: software for the deaf

O'Malley, Chris

Popular Science (Pop Sci) v. 249 (Sept. '96) p. 35

DOCUMENT TYPE: Feature Article

ISSN: 0161-7370

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

...ABSTRACT: help the hearing impaired to communicate. Cochlear Corp.'s Foundations in Speech Perception (\$750) can **aid hearing** impaired children to enhance their listening skills through a series of drills that use visual cues and real recorded voices. **Two CD- ROM** resources for learning sign language are IVI Publishing's Sign Language for Everyone (\$35) and...

14/3,K/13 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

05147970 SUPPLIER NUMBER: 10772097 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Zenith Data claims a string of firsts for its second generation Supersport laptops. (Zenith Data Systems Corp. introduces new portable computers) (product announcement)

McGinn, Janice

Computergram International, n1679, pCGI05200009

May 20, 1991

DOCUMENT TYPE: product announcement

ISSN: 0268-716X

LANGUAGE:

ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 765

LINE COUNT: 00060

... 386SX, and it has a 12MHz 80C286 processor, a 30Mb hard drive and 1Mb of **memory**. **Both** notebooks have VGA backlit displays and a range of ports for attaching peripherals. The MastersPort...

14/3,K/14 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

03887804 SUPPLIER NUMBER: 07226228 (USE FORMAT 7 OR 9 FOR FULL TEXT)
3M introduces digitally controlled hearing aid and computerized fitting system. (MemoryMate) (product announcement)

PR Newswire, 0501SE007

May 1, 1989

DOCUMENT TYPE: product announcement LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 678 LINE COUNT: 00055

... independently, based on the user's degree of hearing loss and individual lifestyle. This advanced, **Multi - Memory** brand technology places the **hearing aid** user in direct control of what he or she wants to **hear**.

Because the MemoryMate **aid** is programmed using a computer, it can be updated easily at a dispenser's office...

14/3,K/15 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

01317152 SUPPLIER NUMBER: 07900822 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Making light of the PC's future. (portable computers) (includes related article titled 'products that point the way')

Bidmead, Chris

Which Computer?, p114(4)

Oct, 1989

ISSN: 0140-3435 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2037 LINE COUNT: 00157

... 3-1/2-inch drives. It is currently being used in the Agilis handheld computer.

Memory
devices

Many of the new ultra-light-weight computers coming through this autumn, like the Atari Portfolio, use credit-card sized memory boards as a substitute for disk drives. At the **heart** of these **devices**, generally known as 'smart-cards', are surface-mount packages of conventional static RAM chips, sustained...

14/3,K/16 (Item 1 from file: 484)

DIALOG(R)File 484:Periodical Abs Plustext

(c) 2005 ProQuest. All rts. reserv.

04579097 SUPPLIER NUMBER: 47101843 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Loudness discrimination of speech signals spectrally shaped by a simulated hearing aid

Rakerd, Brad; Punch, Jerry; Hooks, Willard; Amlani, Aryn; Vander Velde, Timothy K

Journal of Speech, Language, & Hearing Research (IJHR), v42 n6, p1285-1294, p.10

Dec 1999

ISSN: 1092-4388 JOURNAL CODE: IJHR

DOCUMENT TYPE: Feature

LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 5492

TEXT:

... speech levels and signal-to-noise ratios in an investigation aimed at providing specifications for **multiple - memory** or environmentally adaptive **hearing aids** (Keidser, Macrae, Grant, & Brewer, 1998).

The present study addresses a potential limitation of the PAS...

14/3,K/17 (Item 2 from file: 484)

DIALOG(R)File 484:Periodical Abs Plustext

(c) 2005 ProQuest. All rts. reserv.

03732212 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Loss in late life

Pitt, Brice

British Medical Journal (International) (IBMJ), v316 n7142, p1452-1454, p.3
May 9, 1998

ISSN: 0959-8146 JOURNAL CODE: IBMJ

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2713

comp

TEXT:

... age. Presbyopia is readily remedied by glasses, presbycusis less readily (or perhaps less acceptably) by **hearing aids**. These are very gradual processes, usually accepted without distress, though blindness or severe deafness is a **different** matter. Some **memory** loss may be normal with ageing; speed seems to be affected more than secondary memory...

14/3,K/18 (Item 3 from file: 484)

DIALOG(R)File 484:Periodical Abs Plustext

(c) 2005 ProQuest. All rts. reserv.

02178779 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Programmable hearing aids: Evaluation and prediction of benefit

Matthes, Richard; Levitt, Harry; Saunders, Gabrielle; Cienkowski, Kathleen
Journal of Rehabilitation Research & Development (PJHB), v30-31, p273-274
, p.2

Dec 1994

ISSN: 0748-7711 JOURNAL CODE: PJHB

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 554

LENGTH: Medium (10-30 col inches)

comp

TEXT:

PURPOSE--The VA system currently dispenses over 60,000 conventional **hearing aids** per year. There are now, however, many models of programmable **hearing aids** available which incorporate features that conventional **hearing aids** do not, such as **multiple** memories for **storage** of **different** frequency responses, multichannel compression, and precise frequency shaping. Additionally, manufacturers claim that programmable **hearing aids** have superior sound quality. However, programmable **hearing aids** cost considerably more than conventional **hearing aids** and take substantially more clinic time to fit. One aim of this study is to determine whether programmable **hearing aids** are sufficiently superior to conventional **hearing aids** as to justify the additional costs that would be involved if the VA were to...

14/3,K/19 (Item 1 from file: 570)
DIALOG(R)File 570:Gale Group MARS(R)
(c) 2005 The Gale Group. All rts. reserv.

01136456 Supplier Number: 41562221
Cobra Targets Seniors With New Cordless Phone
TWICE, v37, n5, p34
Sept 21, 1990
ISSN: 0892-7278
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade

ABSTRACT:
...Clear Call Plus Circuitry with compander signal processing for better sound quality, a volume control, **two** direct-access **memory** dial buttons and **hearing - aid** compatibility.
...

14/3,K/20 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01493065 Supplier Number: 42088536 (USE FORMAT 7 FOR FULLTEXT)
ZENITH DATA CLAIMS A STRING OF FIRSTS FOR ITS SECOND GENERATION SUPERSPORT LAPTOPS
Computergram International, n1676, pN/A
May 20, 1991
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 727

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...with main memory and bus interface control system, and the 82306SL peripheral component subsystem. The **heart** of the **device** is an 80386-compatible central processing unit that contains the same paged memory management as...

...386SX, and it has a 12MHz 80C286 processor, a 30Mb hard drive and 1Mb of **memory**. **Both** notebooks have VGA backlit displays and a range of ports for attaching peripherals. The MastersPort...

14/3,K/21 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

00628619 CMP ACCESSION NUMBER: EET19890529S1388
Shifting concerns in microprocessor development prompt changes in ICE and other tools.: 'It's a software world' (Technology Update)
RAY WEISS
ELECTRONIC ENGINEERING TIMES, 1989, n 540, 43
PUBLICATION DATE: 890529
JOURNAL CODE: EET LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: TECHNOLOGY UPDATE
WORD COUNT: 3363

... software combined with a sophisticated logic analyzer to examine

signal and bus relationships.

Advanced Micro **Devices** took simulation to **heart** . The company fielded an early instruction-set simulator, now in the public domain, to help...

...the chip. Included is a memory simulator that allows designers to evaluate the effects of **different memory** configurations.

Speed is of the essence

Observed Trevor Marshall, president of Yarc Inc. (Westlake, Calif...

?

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Journal/Book Title:					
Article Title:		Programmable Hearing Aids: Evaluation and Prediction of Benefit			
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[237] PROGRAMMABLE HEARING AIDS: EVALUATION AND PREDICTION OF BENEFIT

Richard Matthes, EdD; Gabrielle Saunders, PhD; Kathleen Cienkowski, MS; Harry Levitt, PhD

East Orange VA Medical Center, East Orange, NJ 07019; Lexington Center, Research Division, New York, NY 11370

Sponsor: Department of Veterans Affairs, VA Rehabilitation Research and Development Service, Washington, DC 20420
(Project #C664-RA)

PURPOSE—We aim to determine whether programmable hearing aids are superior to conventional hearing aids in terms of benefit and satisfaction; and if so, which particular features underlie this. We will examine whether individuals prefer and/or perform better with: four accessible frequency responses versus one, high fidelity circuitry versus conventional circuitry, a wide frequency response versus a conventional one, and wide dynamic range compression versus peak clipping.

Hearing aid benefit and satisfaction is only partly explained by audiometric measures. We aim to learn what personality, attitude, cognitive, and psychoacoustic factors influence hearing aid benefit. From this we hope to develop a predictive protocol for clinical use prior to hearing aid dispensing.

METHODOLOGY—Subjects were 72 males aged between 55 and 75, with mild-to-moderate sensorineural hearing loss. Each wore one conventional and two programmable hearing aids, with a total of six settings. Each setting was worn for 3 months, thus each subject took part for 18 months. Subjects carried out psychoacoustic, cognitive, and personality tests. They also made subjective evaluations of each hearing aid on a monthly basis and did tests of speech-in-quiet using W-22 spondee and the nonsense syllable test (NST) and speech-in-noise (HINT test) at the start and end of each 3-month period. Real-ear aided responses (REAR) were measured for all conditions.

PROGRESS—Sixty-four subjects have completed the study, the remaining will finish within 6 months. Analyses have been carried out on several aspects of the data.

RESULTS—Comparisons between the hearing aids showed significant differences on all three performance measures. Subjects performed best with Programmable Aid 1 on the HINT test, and with Programmable Aid 2

on the other measures. Performance with the conventional aid was midway between the other two aids on all tests. Thus, programmable hearing aids do not appear to be superior to conventional hearing aids. However, preference ratings provide a different picture. Patients reported least disability and handicap with Programmable Aid 1, and 87 percent of subjects chose it as being their favorite hearing aid. Thirty-nine percent of these patients used two of the four available programs, while 45.4 percent used three or four. It is concluded that: 1) speech-in-noise performance is a better predictor of preference than speech-in-quiet; 2) high frequency gain is not liked; 3) patients do not necessarily prefer the amplification that leads to best performance; and 4) Most subjects find two accessible frequency responses sufficient, three or more are probably unnecessary.

An Attitude to Hearing Questionnaire has been developed. Factor analysis extracted five reliable subscales. The questionnaire has good test-retest reliability. Multiple regression analyses showed that the attitudes subscales are the main predictors of reported hearing handicap and disability-audiological measures played a minimal role. Articulation indices, calculated from REARs, were significantly correlated with W-22 and HINT performance, but not with NST scores nor with subjective ratings. This suggests that audiologists must take into account other psychoacoustic and cognitive abilities if this is to be a useful predictor of hearing aid satisfaction and benefit.

FUTURE PLANS—Data collection from the remaining subjects will continue and final statistical analyses will be carried out. The test battery for predicting hearing aid benefit prior to dispensing will be developed once all data has been collected. Its validity and reliability will then be assessed. The Attitude to Hearing Questionnaire will be further investigated as a potential tool for assessing the effectiveness of counselling and rehabilitation.

These articles have been adapted from *Health Needs Assessment in Practice*, edited by John Wright, which will be published in July.

- 13 Wennberg JE, Mulley AG, Hailey D, Timothy R, Fowler F, Roos N, et al. An assessment of prostatectomy for benign urinary tract obstruction. Geographic variations and the evaluation of medical care outcomes. *JAMA* 1988;259:3027-30.
- 14 Beech R, Gulliford M, Mays N, Melia J, Roderick P. Renal disease. In: Stevens A, Raftery J, eds. *Health care needs assessment, the epidemiologically based needs assessment reviews*. Vol 1. Oxford: Radcliffe Medical Press, 1994:58-110.
- 15 NHS Executive. *Consulting the NHS on a set of provisional clinical indicators*. Leeds: NHSE, 1997. (EL(97)49.)
- 16 Haynes B, Sackett D, Muir Gray J, Cook D, Guyatt C. Transferring evidence from research into practice. 2. Getting the evidence straight. *Evidence-Based Medicine* 1997;2:4-6.
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Coping with loss Loss in late life

Brice Pitt

This is the ninth in a series of 10 articles dealing with the different types of loss that doctors will meet in their practice

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Series editors: Colin Murray Parkes and Andrew Markus

BMJ 1998;316:1452-4

Old age can be seen as a succession of losses, gradual or sudden.¹ Stopping work means a loss of the working role, of the companionship of fellow workers, and of a full, structured day; it means a reduction in income—and, for those who live with someone, less time apart. Some people feel much diminished by retirement, hardly know what to do with themselves, and suffer a loss of status. Most developed societies do little to enhance the image of the "senior citizen," who is liable to be patronised, marginalised, or simply ignored and is seen as a problem for an overburdened welfare state.

There is a view, though, that successful ageing means compensating for some losses by making the best of change. So, the strains of having to commute, living for the job, and struggling to keep up are also lost; some pensions are at least adequate; there are concessions that make life a little cheaper for the over 60s. Having more time to oneself, for hobbies and interests, and to spend with partner are often regarded as benefits. Though it is usually a sudden event, retirement is (unless there is unheralded redundancy) expected and there is time to prepare for it.

Many types of loss

Sensory loss afflicts most people as they age. Presbyopia is readily remedied by glasses, presbycusis less readily (or perhaps less acceptably) by hearing aids. These are very gradual processes, usually accepted without distress, though blindness or severe deafness is a different matter. Some memory loss may be normal with ageing; speed seems to be affected more than secondary memory, and verbal IQ is very well preserved.² "Benign" memory impairment³ presents no serious problems, apart from the fear of dementia—which is, unfortunately, realised in a fifth of people over 80.⁴

It is not often acknowledged, except as a rueful and ribald joke, that loss of sexual enjoyment is common and distressing, and not an inevitable part of ageing.⁵

Summary points

In old age comes a succession of losses: dementia occurs in 20% of those over 80; loss of sexual enjoyment is common but not inevitable; half of octogenarians live alone

Depression in elderly people is often unrecognised; it is often caused by loss and, in turn, causes further losses

Preparation for retirement, health checks for the elderly, continued access to education, and the use of "at risk" registers can mitigate some of the problems of old age

The rationing and limitation of social support for the elderly is not justified

Hormone replacement therapy and prostaglandins may do much to restore sexual function and enjoyment, but some older people are too shy to seek help, fearing that they should be "past it" and may be regarded as ridiculous or as "a dirty old man" (or woman).

The risk of serious health problems—stroke, myocardial infarction, heart failure, falls and fractures, arthritis, obstructive airways disease, cancer—increases with ageing,⁶ though many old people are spared serious infirmity until a short final illness. Those who are less fortunate suffer loss of comfort, mobility, and life expectancy. There is a risk of being widowed, especially for women, which represents a major loss after 40 years or more of being together.

Secondary to health problems (which make it difficult to get out and about), to reduced means (for transport and entertainment), and to the dying off of friends and family is isolation, which may be accompanied by loneliness. In Britain, about half of people 80 and over live alone,⁷ and the extended family is stretched very

thin by distance and relatively small numbers of children. Another secondary consequence of ill health, and most painful of all for many, is loss of independence.

Since long term care has become ever more arbitrarily and capriciously available from the NHS, old people who own property fear loss of estate. The desire to pass on the fruits of labour, success, sound investment, or good fortune to one's family is fundamental, and the power to do so may increase an older person's self esteem. Thus the costs of continuing care add to the problems of infirmity.

Reduced life expectancy is related to age and sickness. Through life a sense of immortality gives place to the shocking awareness of inevitable death, rapidly replaced (except in time of war, epidemic, or other crisis) by a feeling that it is a long time off or by denial. Birthdays like the 40th or 50th may precipitate fears of finality and an anxious review of achievements and ebbing potential. But still denial is a powerful buffer. Old people make long term plans and refer to peers as "old" but not themselves.

A new concern, as euthanasia becomes less theoretical and more real (as already in Holland and recently in the Northern Territory of Australia⁹), may be overlong survival, where life draws on without quality and the burden of infirmity falls on the family. While euthanasia may seem a boon to some, it could be felt to be a duty by others—to stop being a drag on the family's emotional and financial resources.

Loss and depression

With so many vicissitudes it might be expected that the morbidity for depression in late life would be high. The evidence, however, is inconsistent and contradictory. While suicide rates peak in old age (for women in their late 60s, men around 80¹⁰) rates of depression are lower in older than in younger people. The epidemiological catchment area study in the United States found a prevalence of 2-3% in people over 65—a fifth of the rate in young adults.¹¹ Using a different instrument to diagnose depression, a survey of psychiatric disorder in general hospital inpatients aged over 16 in Oxford found that depression was least common in people over 70.¹² Younger people might be more open, older

more guarded. Older people tend to somatise their emotional complaints, and these symptoms might erroneously be attributed to organic disease. Dementia might remove from consideration people who would otherwise have been recognised as depressed, or the researchers might have happened on an unusually contented cohort.

Rates of depressive disorders as high as 17% have been recorded in London,¹³ and these accord with rates elsewhere in the United Kingdom found by using instruments specially designed for older respondents—the geriatric mental state examination¹⁴ and its computerised form AGE-CAT,¹⁵ and the SELF-CARE D.¹⁶ Although the syndrome of depressive illness in late life is fairly common, the symptoms are far more so.¹⁷

Depression in old age is often undiagnosed and untreated

Why might depression be less common in older people? Depression carries a high mortality, so sufferers may not survive into old age. Today's oldest people are hardy survivors of poverty, large families, two world wars, and the pre-antibiotic, pre-welfare state era, and they tend therefore to be resilient. Possibly such benefits as central heating, television, allowances and entitlements, taken for granted by younger people, are appreciated by those who are older and once lacked them, and this offsets some of the losses; not having to work, for example, can be a great relief.

The likelihood, though, is that depression is more common in late life, but is frequently unrecognised. The evidence includes the high suicide rate, already mentioned. Barraclough's classic study of suicide in elderly people on the south coast of England showed that most were likely to have had depressive illness, had attended their general practitioners weeks before the act, and were being treated with tranquillisers, hypnotics, analgesics, and laxatives but not antidepressants.¹⁸ The evidence also includes the increasing rate of first admissions for depressive illness to psychiatric units in England and Wales (though it is more marked in women, from middle life the rate increases in both sexes with every decade, falling off only in those over 85)¹⁹; and the apparent failure of doctors to recognise depression in older people.²⁰ This lack of recognition may be due to lack of education, motivation ("drugs are likely to be toxic, counselling is hard to come by, and anyway it's hard to teach old dogs new tricks") or the somewhat ageist assumption that to be depressed in old age is both normal and justified.

The use of an "at risk" register and screening for depression may be good uses of finite resources

Depressive illness in late life often follows a major adverse life event, like bereavement or acute life threatening illness, but the association may not always be that the loss precedes the depression: depression may cause loss. Depressed people do not care to take care of themselves and may become ill, have accidents,



ADRIANA DORSETT

Old people suffer a succession of losses

and die from self neglect as well as deliberate self harm.

What to do about it?

Marriage "till death us do part" was easier to honour when it usually meant 10-15 years rather than, as now, 40-50 years, as the high divorce rates in the more developed (and more aged) societies indicate. Shortage of housing is aggravated by the need of divorcees for two dwellings. A small consolation for high levels of unemployment is that, long before retirement age, many people have been prepared for not working and managing on reduced means. Others may benefit from preparation for retirement classes, and workshops are now provided by most large companies, trades unions, and professional bodies.³¹

"The comfortable state of widowhood is the only hope which keeps up a wife's spirits" (Mrs Peachum in *The Beggar's Opera*)

Health education not to smoke, to eat and drink moderately, to watch weight, and to take exercise may reduce ill health later in life. Health checks, either at set times (like the 75th birthday) or opportunistically ("as you're here, Mr Jones, tell me how you're enjoying your retirement while I check your blood pressure") are a good opportunity for health education. An "at risk" register may be a good use of finite resources for older people who have undergone recent life events—a recent move, illness, or bereavement, or who are known to have chronic infirmity or are living alone.³² Screening for depression with, say, the geriatric depression scale³³ or BASDEC³⁴ is a good start to secondary prevention. A positive approach to the treatment of depression in old age is needed: perceiving the mood disorder underlying somatic complaints; using antidepressants with confidence, in sufficient dosage, and for long enough; and recognising the entitlement and likely efficacy of counselling for bereavement and marital problems and in the context of established depression. The consensus statement by the colleges of general practitioners and psychiatrists in 1995 was a good beginning.³⁵

Further education is available in many daytime and evening classes and the University of the Third Age. Societies in which the fitter elders help their less able peers and seniors need not be a Utopian dream. Many retired people would and do like to "justify themselves by good works."

"Do not go gentle into that good night/Rage, rage against the dying of the light" (Dylan Thomas)

Finally, despair at the demographic time bomb, when there will be supposedly too many pensioners for the remaining workers to provide for them, may have led governments into premature, panicky withdrawal of services. In the United Kingdom, the Community Care Act aimed to contain the costs of residential care, subsidised by social security, by

transferring responsibility to local government. The consequence has been rigorous means testing, the expectation that people who have the means will contribute in part or wholly to their care, and, as budgets run short, rationing of care to those with greatest need. However, the "doomsday scenario" may be fallacious: though there will be a substantial percentage increase in octogenarians in the next 20 years or so, the increase in actual numbers will be small.³⁶

The greatest cause of distress, dementia, may not necessarily prove to be intrinsic to aging. Donepezil can now provide temporary respite for 50-60% of people with early Alzheimer's disease,³⁷ and it is not too fanciful to expect the pace of research into the dementias to yield more lasting remedies that will offset the morbidity associated with an ageing population.

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Digital ScrewDriver (R) chip enhanced .

The Hearing Journal, 52, 7, 87

July, 1999

ISSN: 0745-7472

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Digital ScrewDriver (R) chip enhanced .

TEXT:

SANTA CLARA, CA-TEC (the engineering consortium, inc.) has announced an enhanced version of its **Digital ScrewDriver** (R) chip, which the company described as the industry standard for precision digital programming in...

According to TEC, the **Digital ScrewDriver** Enhanced chip provides expanded flexibility, tighter resistor tolerances, wider programming ranges, and greater software support...

...where growth in smaller, more cosmetically pleasing programmable hearing aids outpaces all other styles."

The **Digital ScrewDriver** , developed with Etymotic Research, is used in a variety of hearing instruments, allowing hearing professionals...

...program them digitally for clients in real time. Among the programmable hearing devices that use **Digital ScrewDriver** technology are Starkey (Sequel.sup.TM), Gennum (DynamEQII.sup.TM), (KAMP.sup.TM) programmable, Micro...

...that are already producing or are moving toward producing multi-memory hearing aids. Now, every **Digital ScrewDriver** (R) -programmed product automatically has a license for multiple memories at a lower cost. For...

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Article Title: _____

Programmable hearing aid system and method for determining optimum parameter sets in a hearing aid.

Volume Number: _____

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REVIEWS OF ACOUSTICAL PATENTS

670 + 0 pg 1379

Lloyd Rice

11222 Flatiron Drive, Lafayette, Colorado 80026

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5,986,224

43.35.Yb ACOUSTIC CONDITION SENSOR EMPLOYING A PLURALITY OF MUTUALLY NON-ORTHOGONAL WAVES

Joel Kent, assignor to Elo TouchSystems, Incorporated
16 November 1999 (Class 178/18.04); filed 19 April 1995

Some touchscreen systems generate acoustic surface waves and then detect disturbances in their transmission. The patent describes an improved version of this general method, using at least two distinct sets of waves which overlap temporally or physically. More than 30 illustrations clarify the concept. The text is well written and includes a thorough survey of the art of touchscreen design.—GLA

5,963,640

43.38.Ja RADIOTELEPHONE HAVING AN ACOUSTICAL WAVE GUIDE COUPLED TO A SPEAKER

Karl W. Rabe, assignor to Ericsson, Incorporated
5 October 1999 (Class 379/433); filed 7 November 1996

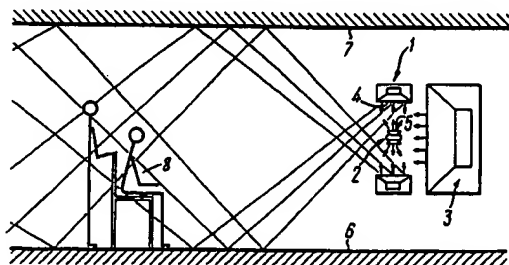
When using a standard telephone handset, the receiver is normally in contact with, or very close to, the user's ear. Flip-top portable telephones employ the same geometry. The inventor argues that the response of miniaturized transducers used for this application typically roll off at about 12 dB/oct below 1 kHz. This can be acoustically equalized by conducting

5,857,027

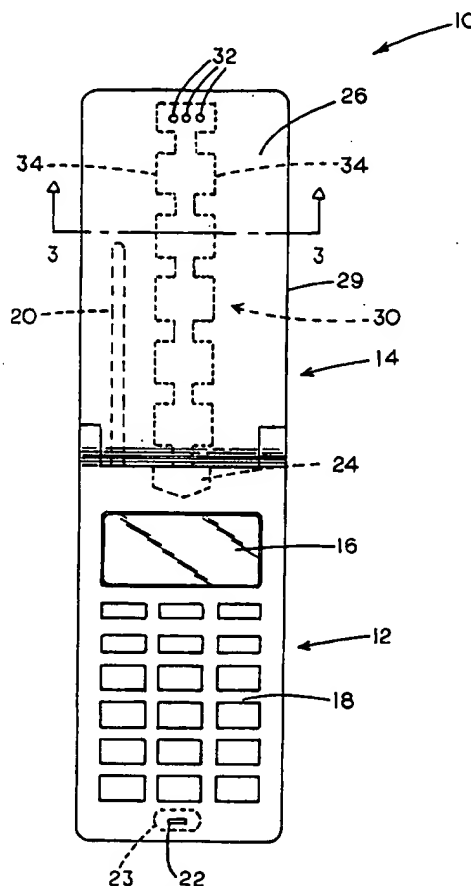
43.38.Ja LOUDSPEAKER

Alexandr Sergeevich Gaidarov and Alxei Vladimir Vinogradov,
both of Moscow, Russian Federation
5 January 1999 (Class 381/182); filed in Russian Federation 6 August 1993

Two mid-range speakers face each other in a vertical array. Counter-radiating high-frequency transducers are located between them. This geometry attempts to "reconstruct" the main reverberation component by bounc-



ing sound energy off the floor and ceiling, thus providing a feeling of presence while minimizing Doppler distortion.—GLA



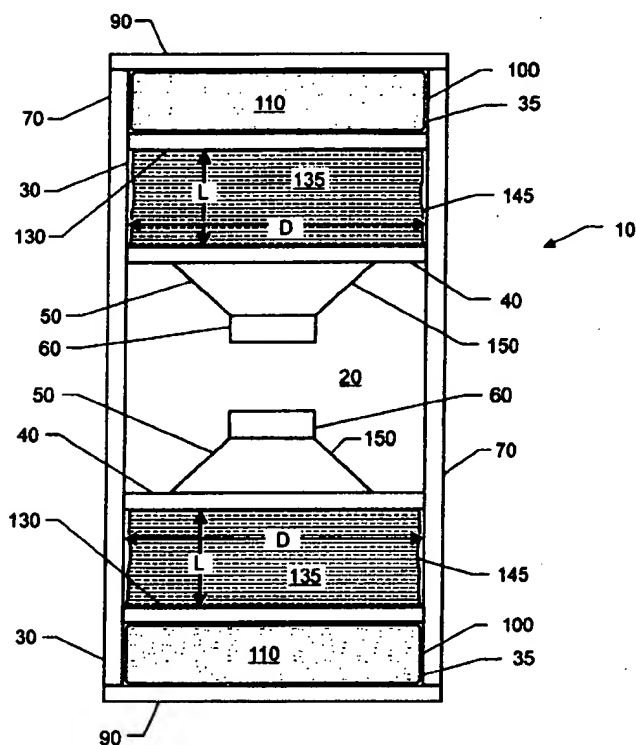
sound from transducer 24 through an elongated waveguide 30 having a varying cross-sectional area. Presumably this arrangement allows greater freedom in product design than simply equalizing the amplifier that drives the receiver.—GLA

6,014,448

43.38.Ja FLUID COUPLED SUBWOOFER ACOUSTIC ENCLOSURE SYSTEM

Noyal J. Alton, Jr., assignor to Sound Related Technologies
11 January 2000 (Class 381/351); filed 5 November 1997

At one time or another, consumers have used water-filled radiators, hot water bottles, water skis, and water beds. At long last comes the announcement of a water-coupled loudspeaker. Twin woofers 150 are located in vented cavity 20. Side walls 70 are flexible and may be segmented. Compression chambers 135 couple sound pressure to flexible support walls 130



and then to bladders 100 filled with fluid 110. For reasons not explained in the patent document, this arrangement is said to efficiently reproduce, "...the vibrating sensations felt by audio signals below 20 Hz that are typically present during a live performance...."—GLA

6,014,239

43.38.Kb OPTICAL MICROPHONE

James T. Veligdan, assignor to Brookhaven Science Associates
11 January 2000 (Class 359/172); filed 12 December 1997

More than 50 years ago Philco marketed a "beam of light" phonograph pickup. The stylus wiggled a small mirror which deflected a beam of light across the aperture of a photocell. This diaphragmless microphone is considerably more sophisticated. It employs a laser and beamsplitter in an arrangement that measures changes in the local refractive index resulting from the passage of sound waves. In comparison with conventional microphones, advantages cited include greater sensitivity, unlimited bandwidth, and attenuation of popping "P" sounds.—GLA

5,933,769

43.38.Si PORTABLE TELEPHONE CAPABLE OF DECREASING NOISE

Yasuhiro Kaneko, assignor to NEC Corporation
3 August 1999 (Class 455/296); filed in Japan 11 July 1996

One would expect a major international corporation such as NEC to insist on the best possible English translation when filing a patent in the United States. The patent at hand is a curiosity, a throwback to the time when brochures and owner's manuals were written in Pidgin English. The invention embodies improved noise suppression circuitry for use in portable telephones. Two switchable low-pass filters are selected in relation to rf field intensity by making use of a logic table.—GLA

6,009,178

43.38.Si METHOD AND APPARATUS FOR CROSSTALK CANCELLATION

Jonathan S. Abel and Stacy Lynn Welsh, assignors to Aureal Semiconductor, Incorporated
28 December 1999 (Class 381/1); filed 16 September 1996

A number of earlier schemes have been devised to allow accurate perception of binaural recordings when reproduced from loudspeakers rather than headphones. The patent describes circuitry which provides reasonably good reproduction even when the listener is not at the ideal location, or if the head-related transfer function of the listener does not correspond well with the function used to design the system.—GLA

6,010,216

43.38.Si "HEAR SPEAK" TWO-WAY VOICE RADIO COMMUNICATIONS EYEGLASSES

Daniel Stephen Jesiek, Flint, Michigan
4 January 2000 (Class 351/158); filed 19 January 1993

The invention is similar to a binaural, eyeglass-frame hearing aid except that it is really a hands-free walkie-talkie. At least one of the earbuds also serves as a microphone, picking up voice signals traveling up the Eustachian tube.—GLA

5,771,294

43.38.Vk ACOUSTIC IMAGE LOCALIZATION APPARATUS FOR DISTRIBUTING TONE COLOR GROUPS THROUGHOUT SOUND FIELD

Toshihiro Inoue and Hiroyuki Torimura, assignors to Yamaha Corporation
23 June 1998 (Class 381/17); filed in Japan 24 September 1993

In recent years, a great amount of effort has been dedicated to producing stable, well-localized, phantom sound sources at locations beyond the spacing of stereo loudspeakers. In most cases, this work has been targeted at computer games or reproducing surround sound channels without surround sound loudspeakers. However, numerous other applications come to mind. For example, an electronic keyboard instrument might have controls to set locations of individual voices. The patent describes a sophisticated method of doing just that. It is clearly written and should be of interest to anyone involved with electronic music.—GLA

5,953,067

43.38.Vk MULTICHANNEL TELEVISION SOUND STEREO AND SURROUND SOUND ENCODER

Sealtiel Avalos *et al.*, assignors to Cable Electronics, Incorporated
14 September 1999 (Class 348/485); filed 25 August 1997

The surround sound that is (occasionally) heard from present-day TV receivers is transmitted as part of the amplitude-modulated L-R stereo signal. According to the patent, most modulators have excessive rolloff at high frequencies, which effectively filters out some or all of the surround sound information. The patent describes a method of using preemphasis companding, and synchronizing circuitry to transmit stereo and surround sound in accordance with multichannel television sound protocol.—GLA

6,032,552

43.40.Tm VIBRATION CONTROL BY CONFINEMENT OF VIBRATION ENERGY

Daryoush Alleai, assignor to Quality Research Development & Consulting, Incorporated
7 March 2000 (Class 74/574); filed 7 August 1995

This patent addresses the confinement of vibration to one or more specified areas of a mechanical structure, in order to reduce the vibrations that reach other areas. This confinement is achieved by means of devices that do not permit vibrations to be transmitted past them. These devices effectively apply translational and torsional forces, and they may be active or passive. The patent reviews the underlying theory and illustrates numerous embodiments, largely applicable to beams, in which flexural wave propagation can be inhibited by preventing rotations and lateral translations.—EEU

6,035,980

43.40.Tm MAGNETIC SPRING HAVING DAMPING CHARACTERISTICS AND VIBRATION MECHANISM HAVING SAME

Etsunori Fujita *et al.*, assignors to Delta Tooling Company, Limited
14 March 2000 (Class 188/267); filed in Japan 8 April 1996

This patent basically relates to suspension seats as may be used in off-road vehicles, trucks, etc., for the purpose of isolating the seats' occupants from vibrations. It describes a series of configurations that employ opposing magnets and mechanical linkages to obtain nonlinear spring characteristics of various types. It presents some related theoretical analyses and the results of corresponding calculations, as well as some experimental data.—EEU

6,026,690

43.40.Yq VIBRATION SENSOR USING THE CAPACITANCE BETWEEN A SUBSTRATE AND A FLEXIBLE DIAPHRAGM

Yoshimori Nakagawa and Jun Kishigami, assignors to Sony Corporation
22 February 2000 (Class 73/654); filed in Japan 20 June 1944

The major components of this vibration sensor, which is intended for use in navigation systems for motor vehicles, are a backing plate with an electret film and a diaphragm. As in an electret microphone, the diaphragm is located near the electret film and displacement of the diaphragm relative

to the backing plate is sensed via changes in the electrostatic capacity. In order to make the vibration sensor less responsive to airborne sound, a series of holes is provided in the diaphragm near its circumference, leaving only thin radial strips to support the diaphragm.—EEU

6,033,756

43.50.Gf APPARATUS FOR AND METHOD OF ATTENUATING ACOUSTIC ENERGY

Paul Handscomb, assignor to Pritex Limited
7 March 2000 (Class 428/138); filed in the United Kingdom 4 December 1996

The sound-absorbing surface arrangement described in this patent is intended for use in headliners of cars, for architectural applications, or the like. It consists of three layers, the middle one of which is of closed cell foam and has a series of holes through it. A layer of open-cell foam or of fibrous material is located between the aforementioned one and an essentially impermeable surface, such as the roof of a car or the wall of a room. The holes in the closed-cell foam layer and the air space in which the open-cell layer is located constitute an array of Helmholtz resonators; the open-cell material serves to broaden and reduce their absorption spectrum peaks. Another open-cell layer is placed atop the entire assembly for the purpose of increasing the high-frequency absorption.—EEU

6,035,965

43.50.Gf SOUND ABSORBING BODY, SOUND ABSORBING BOARD, AND SOUND ABSORBING UNIT

Kyoji Fujiwara *et al.*, assignors to Nitto Boseki Company, Limited
14 March 2000 (Class 181/293); filed in Japan 11 October 1994

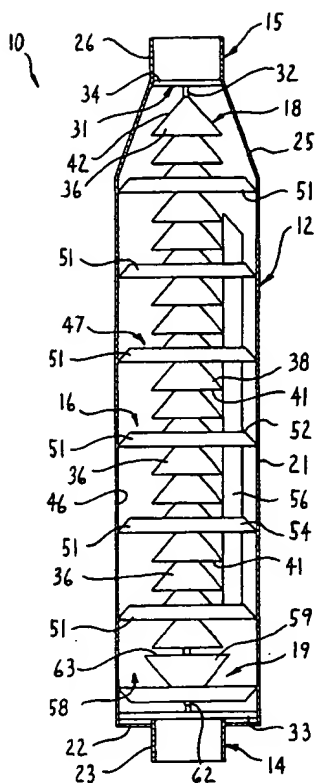
This patent relates to sound absorption for ceilings and walls in buildings, tunnel walls, and outdoor installations. The primary element consists of a board of fibrous material with a larger number of through-holes, which may be placed against a rigid surface either directly or with some standoff. A major concern addressed by this patent is improvement of the visual appearance of this board, largely to avoid "flicker." This improvement is achieved by various configurations in which the openings of the holes on the side that can be seen are widened, deepened, and partially covered with visually attractive elements. These elements, which may be in the form of strips or disks, etc., are configured so that they do not obstruct sound transmission into the holes significantly.—EEU

6,024,189

43.50.Gf NOISE ATTENUATING APPARATUS

Stephen G. Heuser, Lawrence, Michigan
15 February 2000 (Class 181/264); filed 20 August 1997

An engine muffler is described in which exhaust gases enter at 14. A diverter 19 serves to direct the flow along the outside of the inner cone assembly 18. "Sound waves are repeatedly reflected against the inner cone



assembly 18" and "destructively interfere with one another such that sound levels are reduced."—KPS

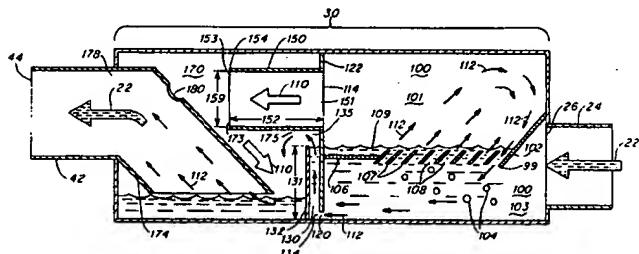
6,024,617

43.50.Gf MARINE ENGINE SILENCING APPARATUS AND METHOD

Joseph I. Smullin and Matthew E. Denis, assignors to Smullin Corporation

15 February 2000 (Class 440/89); filed 6 August 1997

A marine engine muffler has inlet 22 into which enter a mixture of cooling water and engine exhaust gases. A means is provided to separate the gases from the water. Water is kept in the separation chamber, thus cooling



the gases, for operation at low engine speeds. The water level is designed to drop at higher speeds in order to minimize back pressure on the engine. Several alternative designs for the separation chamber are described.—KPS

6,036,212

43.50.Gf DAMPING SYSTEM HAVING SEPARATELY ADJUSTABLE DAMPING CIRCUITS

Ricardo R. Baldomero, assignor to Rockshox, Incorporated
14 March 2000 (Class 280/276); filed 17 March 1998

A shock absorber intended for use on bicycles is described which allows independent adjustment of compression and rebound damping. Fluid flow is restricted within two circuits using a single adjustment rod.—KPS

6,012,426

43.50.Lj AUTOMATED PSYCHOACOUSTIC BASED METHOD FOR DETECTING BORDERLINE SPARK KNOCK

Michael Alan Blommer, assignor to Ford Global Technologies, Incorporated
11 January 2000 (Class 123/406.38); filed 2 November 1998

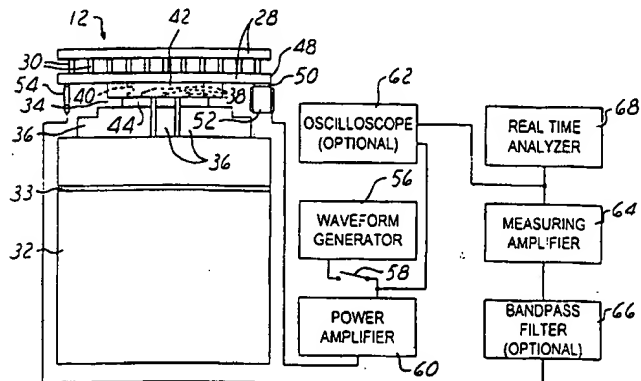
Spark knock ("pinging") in an internal combustion engine is detected using the signal from a microphone placed in the vicinity of the engine. In particular, this patent aims to determine a degree of knocking which is just below a human observer's ability to detect it. The method uses signal processing to represent the human auditory system and consists of one-third-octave band filters centered from 4 to 10 kHz and a temporal masking model to characterize the impulsive nature of the sound. The number of detectable spark knocks per unit time is thus used to determine the optimum spark timing.—KPS

6,014,899

43.50.Lj METHOD AND APPARATUS FOR MEASURING VIBRATION DAMPING OF BRAKE PARTS

Robert P. Uhlig and Cheryl A. Fry, assignors to Chrysler Corporation
18 January 2000 (Class 73/664); filed 16 September 1997

A brake rotor 12 is driven by an exciter coil 52 at its resonance frequency and the resultant vibration is detected by a microphone 54. Damping of the rotor is determined from examination of the decay of the microphone signal when the signal to the exciter coil is terminated. The rotor is rotated to several positions and at each of these positions the resonance frequency is



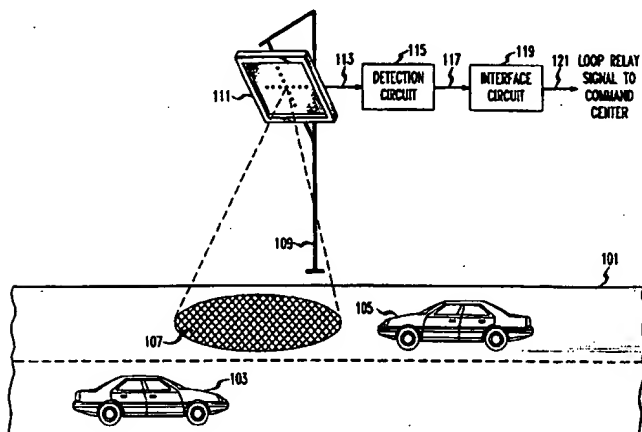
determined and a decay measurement is made. The resultant Q-factors are found to vary periodically around the circumference. This phenomena is explained by the presence of twin bending modes of the rotor. A sinusoidal curve-fit to the Q-factor data enables a more reliable estimate of damping to be made.—KPS

6,021,364

43.50.Lj ACOUSTIC HIGHWAY MONITOR

Edward Fredrick Berliner *et al.*, assignors to Lucent Technologies, Incorporated
1 February 2000 (Class 701/1); filed 28 May 1993

A method to acoustically monitor highway traffic is described in which a microphone array 111 is used to detect the presence of a vehicle in the zone 107. In contrast to an inductive loop method, this approach does not



require that the roadway be dug up and will be effective for vehicles having high nonmetallic content.—KPS

6,026,338

43.50.Lj SYSTEM TO CONTROL A CHASSIS VIBRATION DAMPING DEVICE

Udo Borschert and Thomas Kutsche, assignors to Fichtel & Sachs AG
15 February 2000 (Class 701/37); filed in Germany 25 October 1995

A method is described which produces control signals for use in an adaptive or active vehicle suspension system. The required control signals are acceleration in three orthogonal directions (axes). A single accelerometer is oriented in a direction that is inclined to all three axes. This accelerometer signal, in combination with one other signal from either the speedometer, steering wheel, brake, or gas pedal, is filtered and somehow decomposed to yield acceleration values for all three axes.—KPS

6,026,776

43.50.Lj INTERNAL CRANKSHAFT VIBRATION DAMPER

Randy S. Winberg, Denver, Colorado
22 February 2000 (Class 123/192.1); filed 26 June 1997

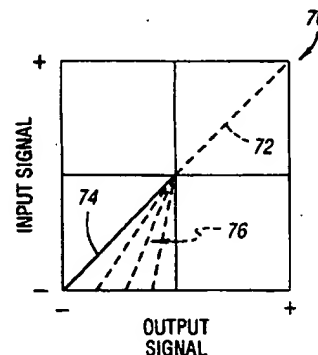
A method to provide vibration damping of an engine crankshaft is described in which damping elements are mounted within the counterbalance weights adjacent to the connecting rod journal bearings. This approach is contrasted with conventional treatment applied at one end of the crankshaft.—KPS

6,023,513

43.66.Ts SYSTEM AND METHOD FOR IMPROVING CLARITY OF LOW BANDWIDTH AUDIO SYSTEMS

Eliot M. Case, assignor to U S West, Incorporated; MediaOne Group, Incorporated
8 February 2000 (Class 381/61); filed 11 January 1996

A method is described that is said to enhance the sound clarity of voice transmission in restricted bandwidth audio systems. Enhancement is provided by adding in even harmonic distortion at any point in the signal transmission path. The even harmonics are added into a frequency range



within the limited bandwidth of the system. Distortion is created deliberately by providing different amounts of gain to the positive and negative half-cycles of the voice signals.—DAP

6,031,923

43.66.Ts ELECTROMAGNETICALLY SHIELDED HEARING AIDS

Louis Thomas Gnecco, Herdon, Virginia and Paula Sharyn Gnecco, Herdon, Virginia
29 February 2000 (Class 381/322); filed 13 November 1995

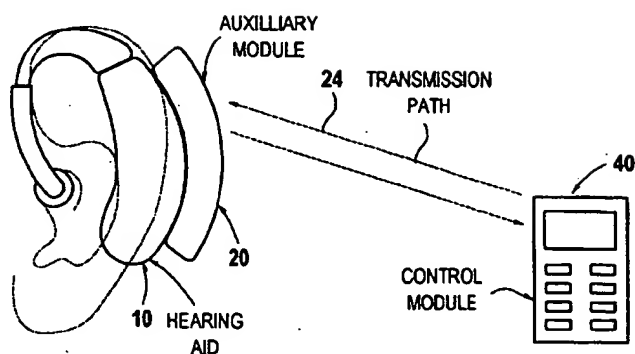
Several methods are described for shielding hearing aids against external electromagnetic interference. These include use of electrically conductive foil and conductive gaskets to shield the hearing aid case, making the hearing aid housing out of metal-impregnated plastic, and adding series inductors and/or ferrite beads and/or parallel capacitors to the circuitry.—DAP

6,035,050

43.66.Ts PROGRAMMABLE HEARING AID SYSTEM AND METHOD FOR DETERMINING OPTIMUM PARAMETER SETS IN A HEARING AID

Oliver Weinfurtnr and Inga Holube, assignors to Siemens Audiologische Technik GmbH
7 March 2000 (Class 381/313); filed in European Patent Office 21 June 1996

Determining the optimum electroacoustic performance characteristics for hearing aid wearers for different listening situations is a difficult task that is normally performed by the hearing aid fitter. This patent describes a method and apparatus for having hearing aid wearers, rather than hearing aid fitters, determine indirectly the set(s) of programmable parameters that control the electroacoustic performance of their hearing aids. This determination is made automatically in a training session in which the wearer selects from a number of different parameter sets, stored in a first memory bank, to produce different electroacoustic performances for different listening situations. The software in the hearing aid keeps track in a second



memory of the number of times the hearing aid wearer makes an allocation of a particular parameter set for a specific listening situation. The final programmable parameters selected are based on which parameter sets were used most frequently by the hearing aid wearer during the training phase. The programmed parameter set used for a particular listening situation is selected either by the user manually or by the hearing aid automatically using a neural net structure which learns over time when a particular listening situation is present. To facilitate the selection and storage of parameter sets, external control and mobile auxiliary modules are described which are coupled via hard wire or wireless connection.—DAP

6,049,617

43.66.Ts METHOD AND CIRCUIT FOR GAIN CONTROL IN DIGITAL HEARING AIDS

Ullrich Sigwanz and Fred Zoels, assignors to Siemens Audiologische Technik GmbH
11 April 2000 (Class 381/312); filed in European Patent Office 23 October 1996

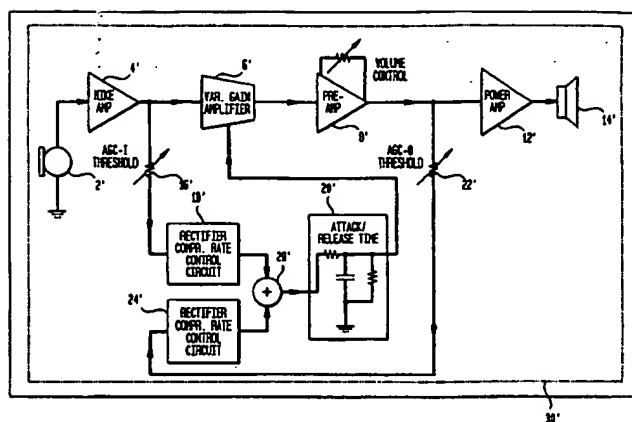
The algorithm described is intended to reduce the harmonic distortion in digital hearing aids that is produced by smoothing the rectified sampled values of the signal during simulation of the charging and discharging of an AGC capacitor in an analog hearing aid. Large jumps in the amplified sampled values that cause harmonic distortion are minimized by smoothing relative to a mean gain value after, rather than before, applying stored gain values to determine the amount of amplification. The smoothed gain values are combined with the sampled values and then are converted back to analog form.—DAP

6,049,618

43.66.Ts HEARING AID HAVING INPUT AGC AND OUTPUT AGC

Oleg Saltykov, assignor to Siemens Hearing Instruments, Incorporated
11 April 2000 (Class 381/321); filed 30 June 1997

This patent describes a hearing circuit that saves components by providing both input AGC and output AGC using a single variable gain amplifier. Input and output signal levels are detected with separate rectifiers



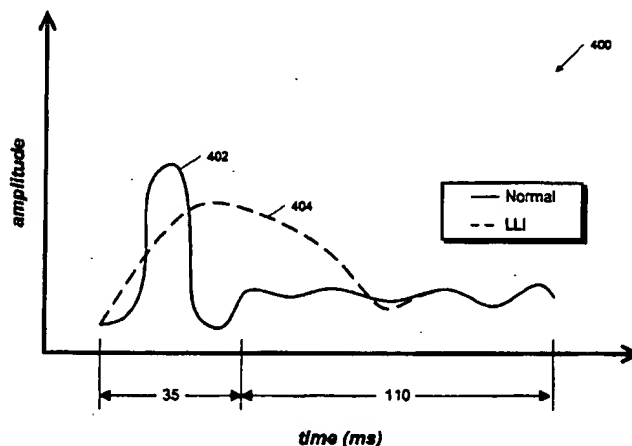
whose outputs are summed to drive a single attack/release time constant network. The variable gain amplifier is located in the circuit prior to the volume control.—DAP

6,019,607

43.70.Dn METHOD AND APPARATUS FOR TRAINING OF SENSORY AND PERCEPTUAL SYSTEMS IN LLI SYSTEMS

William M. Jenkins, Pacifica, California *et al.*
1 February 2000 (Class 434/116); filed 17 December 1997

The system described here is designed for a population having certain auditory deficiencies referred to as language learning impairment. The description of the target population includes children with certain hearing defects, stroke victims, and second language learners. The figure purportedly shows a difference in "phoneme recognition" by normal and impaired lis-



teners. The device provides repeated playback with variable time scales and testing of the perceived sounds. The playback stimuli include speech sounds, frequency sweeps, and other sounds with rapidly changing components.—DLR

6,006,187

43.72.Ar COMPUTER PROSODY USER INTERFACE

Michael Abraham Tanenblatt, assignor to Lucent Technologies, Incorporated
21 December 1999 (Class 704/260); filed 1 October 1996

This patent describes a computer interface used for manually entering prosodic parameters into a speech synthesis control data file. It is, in other words, a prosody editor. Both duration effects and syllable or word promi-

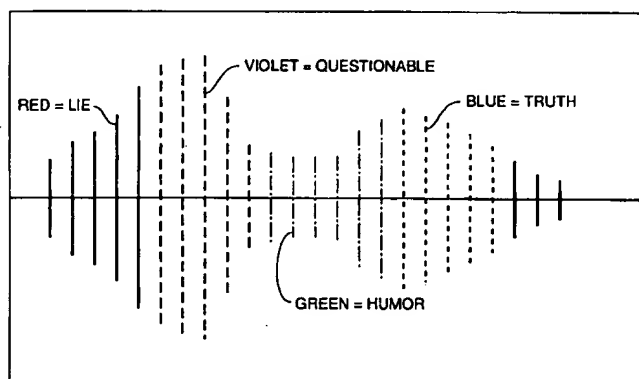
nence can be modified. Current parameter values are displayed in some sort of graphical presentation and the current speech data can be heard by means of a playback function.—DLR

6,006,188

43.72.Ar SPEECH SIGNAL PROCESSING FOR DETERMINING PSYCHOLOGICAL OR PHYSIOLOGICAL CHARACTERISTICS USING A KNOWLEDGE BASE

Rostislav Bogdashevsky *et al.*, assignors to Dendrite, Incorporated
21 December 1999 (Class 704/270); filed 19 March 1997

The patented device accepts a speech signal from a local or remote origin and analyzes that signal into the form of a parameter matrix of cepstral and delta cepstral coefficients. By collecting and storing such data from populations with known physiological or psychological conditions, the sys-



tem may then be used to compare newly collected data with stored reference models representing selected classes or personality types. The system is said to be able to detect truth/falsity as well as a number of emotional states.—DLR

6,014,617

43.72.Ar METHOD AND APPARATUS FOR EXTRACTING A FUNDAMENTAL FREQUENCY BASED ON A LOGARITHMIC STABILITY INDEX

Hideki Kawahara, assignor to ATR Human Information Processing Research Laboratories
11 January 2000 (Class 704/207); filed in Japan 14 January 1997

This is a method for speech fundamental frequency analysis based on a comparison of the bands of a multi-channel filter bank analyzer. Each band of the filter bank has a gradual low-frequency skirt and a very sharp high-frequency cutoff. Amplitude and frequency modulation values are computed for each band, giving a signal stability index. Instantaneous frequency is computed for all bands, from which the fundamental is extracted.—DLR

6,018,706

43.72.Ar PITCH DETERMINER FOR A SPEECH ANALYZER

Jian-Cheng Huang *et al.*, assignors to Motorola, Incorporated
25 January 2000 (Class 704/207); filed 26 January 1995

As more and more computing power becomes available at a lower cost, the algorithms used become less and less clever. That is not necessarily bad, if it works. This vocoder pitch analyzer achieves a more accurate pitch estimate by running multiple analysis programs and then selects the most

accurate estimate by resynthesizing the speech with each pitch method and comparing all outputs to the original speech signal.—DLR

6,023,671

43.72.Ar VOICED/UNVOICED DECISION USING A PLURALITY OF SIGMOID-TRANSFORMED PARAMETERS FOR SPEECH CODING

Kazuyuki Iijima *et al.*, assignors to Sony Corporation
8 February 2000 (Class 704/214); filed in Japan 15 April 1996

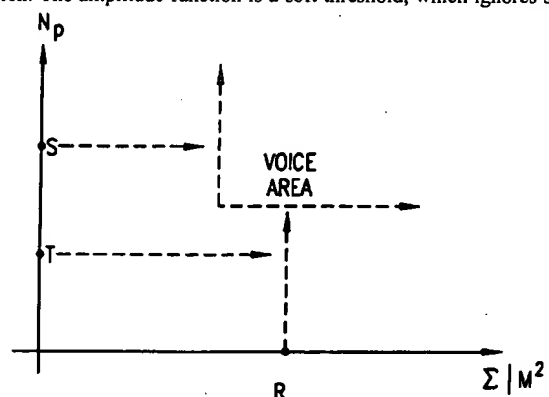
This voiced/unvoiced detector uses a weighted sum of speech frame parameters to reach the V/UV decision. The parameters include energy level, autocorrelation peak value, spectral similarity, zero crossings, and pitch lag. Each parameter is weighted by a sigmoid function with parameter-specific coefficients. This provides a diverse set of nonlinear weighting functions, some increasing, some decreasing, and some with higher weighted mid-range values.—DLR

6,023,674

43.72.Ar NON-PARAMETRIC VOICE ACTIVITY DETECTION

Fisseha Mekuria, assignor to Telefonaktiebolaget L M Ericsson
8 February 2000 (Class 704/233); filed 23 January 1998

This voice activity detector uses a combination of a nonlinear sample amplitude function and a periodicity measure to make a voice-presence decision. The amplitude function is a soft threshold, which ignores samples



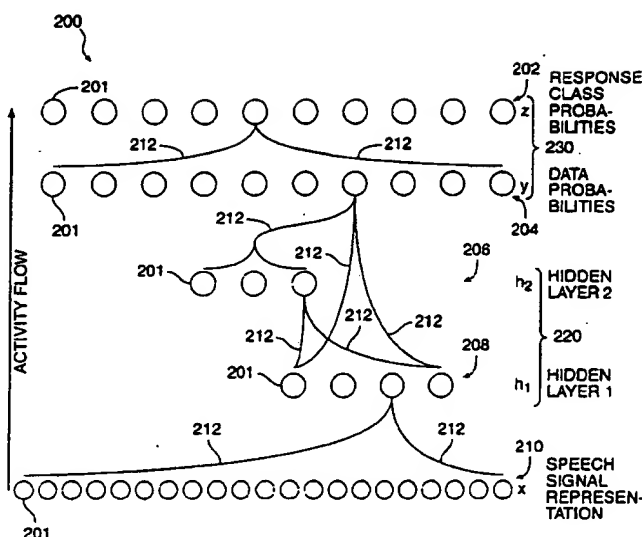
less than a minimum amplitude. The periodicity detector is a type of peak detector whose parameters change as a function of the signal-to-noise ratio. The figure shows a decision boundary in the two-parameter space.—DLR

6,021,387

43.72.Bs SPEECH RECOGNITION APPARATUS FOR CONSUMER ELECTRONIC APPLICATIONS

Forrest S. Mozer *et al.*, assignors to Sensory Circuits, Incorporated
1 February 2000 (Class 704/232); filed 21 October 1994

This low-cost, small-vocabulary speech recognizer uses a five-band filter bank and a neural network to recognize the digits zero through nine. Filter bank coefficients are optimized, allowing filters from 7th to 13th order, energy, and zero crossing extraction to be performed using only shift and add operations. A five-layer network uses limited interconnections.



Within each layer, all unit inputs are connected as shown in the figure for one unit of that layer. The device is said to achieve 96% to 98% accuracy, with most errors flagged as low confidence, allowing a repetition to be requested.—DLR

6,014,623

43.72.Ja METHOD OF ENCODING SYNTHETIC SPEECH

Xingjun Wu and Yihe Sun, assignors to United Microelectronics Corporation

11 January 2000 (Class 704/230); filed 12 June 1997

This is a syllable-based speech synthesizer in which the speech frames within each syllable are coded as line spectral pairs. The first frame of each syllable includes the complete set of ten LSP coefficients and each following frame contains 4-bit differential coefficients.—DLR

6,016,471

43.72.Ja METHOD AND APPARATUS USING DECISION TREES TO GENERATE AND SCORE MULTIPLE PRONUNCIATIONS FOR A SPELLED WORD

Roland Kuhn *et al.*, assignors to Matsushita Electric Industrial Company, Limited

18 January 2000 (Class 704/266); filed 29 April 1998

The patent describes a decision tree technique for generating phonetic transcriptions from text. Referred to as a "mixed tree" method, the system uses decisions based on either letter or phonetic symbol sequences. These are said to provide more accurate transcriptions than prior techniques.—DLR

6,018,709

43.72.Ja SPEECH AND SOUND SYNTHESIZERS WITH CONNECTED MEMORIES AND OUTPUTS

Robert W. Jeffway, Jr., assignor to Hasbro, Incorporated

25 January 2000 (Class 704/258); filed 30 January 1997

This patent describes a control system which allows a LPC speech synthesizer chip, such as a Texas Instruments TSP series, and a typical ADPCM audio synthesis chip to be combined into a single synthesis system. The encoded sound data includes codes which identify whether each portion

is to be synthesized with the speech chip or the audio chip. This allows use of the best coding technique for each type of data, speech versus nonspeech audio.—DLR

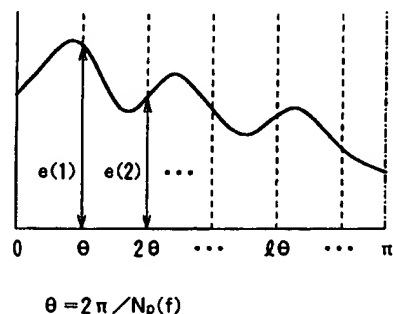
6,021,388

43.72.Ja SPEECH SYNTHESIS APPARATUS AND METHOD

Mitsuru Otsuka *et al.*, assignors to Canon Kabushiki Kaisha

1 February 2000 (Class 704/268); filed in Japan 26 December 1996

This patent describes the waveform synthesizer portion of a text-to-speech system. One or more spectral functions are stored for each phoneme to be synthesized. A sine wave is then sampled at multiple fractions of the



fundamental period and multiplied by the spectral level for each harmonic. A number of different embodiments of the design use different strategies for the harmonic signal generation.—DLR

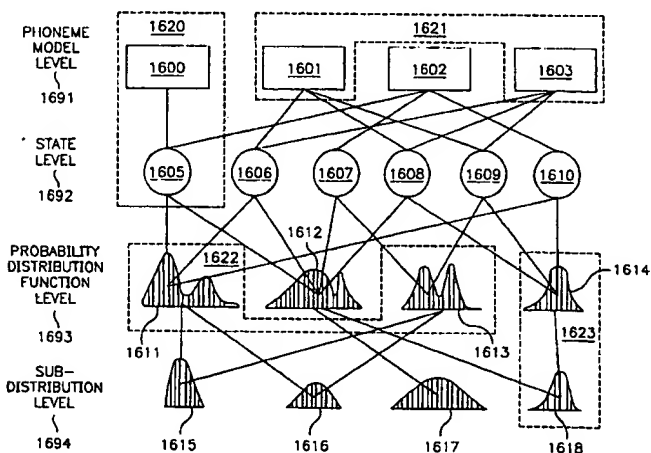
6,006,186

43.72.Ne METHOD AND APPARATUS FOR A PARAMETER SHARING SPEECH RECOGNITION SYSTEM

Ruxin Chen *et al.*, assignors to Sony Corporation; Sony Electronics, Incorporated

21 December 1999 (Class 704/254); filed 16 October 1997

This hidden Markov model (HMM)-based speech recognition system makes multiple use of the trained HMMs by sharing spectral density functions between the HMMs in various ways. Shared HMMs are generated for triphone-trained HMMs when they have common biphones, common pho-



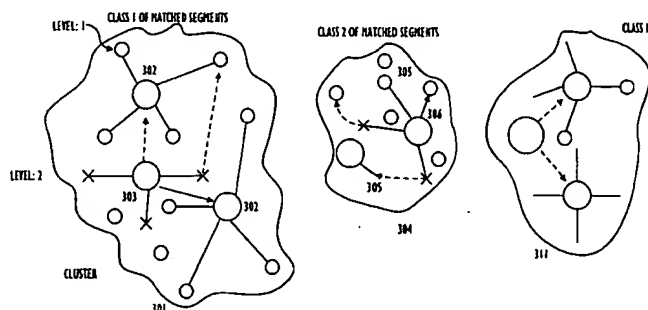
netic context, or common center phonemes, and when they are represented by at least a threshold number of training frames. The sharing occurs within and across levels of the recognition system.—DLR

6,009,392

43.72.Ne TRAINING SPEECH RECOGNITION BY MATCHING AUDIO SEGMENT FREQUENCY OF OCCURRENCE WITH FREQUENCY OF WORDS AND LETTER COMBINATIONS IN A CORPUS

Dimitri Kanevsky and Wlodek Włodzimierz Zadrozny, assignors to International Business Machines Corporation
28 December 1999 (Class 704/245); filed 15 January 1998

This speech recognition training method is designed to eliminate the requirement for labeled training data. Instead of relying on user-supplied phonetic information, the system performs clustering of the input speech feature data, attempting to group the segments into phonetically related



groups. Based on the spectral characteristics and the occurrence distribution of sounds and of words in the sample, the system makes a phonetic class assignment.—DLR

6,014,624

43.72.Ne METHOD AND APPARATUS FOR TRANSITIONING FROM ONE VOICE RECOGNITION SYSTEM TO ANOTHER

Vijay R. Raman, assignor to NYNEX Science and Technology, Incorporated
11 January 2000 (Class 704/243); filed 18 April 1997

This patent is primarily concerned with the conversion of speech or speaker information between database formats as would be used by speaker-dependent (SD) versus speaker-independent (SI) recognition systems. For example, a SD template may be useful in adding to the phonetic models of a SI system. Since such a conversion typically involves a loss of information, provision is made to include original speech data from compressed recordings, whenever possible.—DLR

6,016,470

43.72.Ne REJECTION GRAMMAR USING SELECTED PHONEMES FOR SPEECH RECOGNITION SYSTEM

Chang-Qing Shu, assignor to Gte Internetworking, Incorporated
18 January 2000 (Class 704/244); filed 12 November 1997

The grammar used with a speech recognition system typically specifies a finite list of words or phrases which are acceptable as possible utterances at the particular time. Whatever the actual input speech might be, a choice is forced to one of the expected "target" inputs. This system relaxes that requirement by maintaining a secondary (rejection) grammar. The rejection grammar scores individual phonemes, rather than complete words or phrases. Thus, an out-of-grammar input may score highly as an unknown phonetic sequence, beating the score for the best-fitting target word or phrase.—DLR

6,018,708

43.72.Ne METHOD AND APPARATUS FOR PERFORMING SPEECH RECOGNITION UTILIZING A SUPPLEMENTARY LEXICON OF FREQUENTLY USED ORTHOGRAPHIES

Jean-Guy Dahan and Vishwa Gupta, assignors to Nortel Networks Corporation
25 January 2000 (Class 704/244); filed 26 August 1997

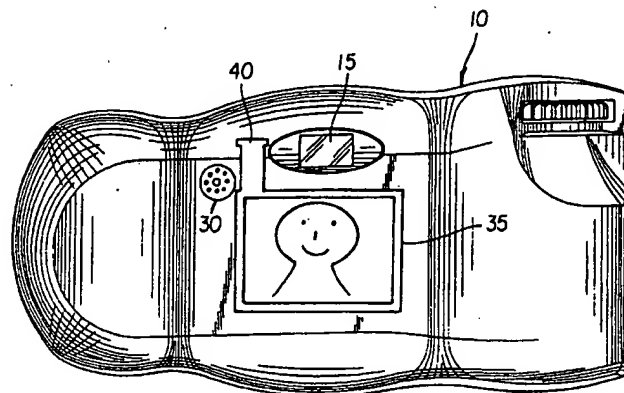
A method is described for improving the second-pass best-choice selection from the N best results of a first speech recognition pass. The first pass is performed with a standard recognition dictionary. A new dictionary created for the second pass contains added items which tend to occur with a higher probability, increasing the chance of selecting those items. In this case, the phrases consist of phone numbers to be called and the high-probability items represent numbers that the user frequently calls.—DLR

6,021,278

43.72.Ne SPEECH RECOGNITION CAMERA UTILIZING A FLIPPABLE GRAPHICS DISPLAY

Bryan D. Bernardi *et al.*, assignors to Eastman Kodak Company
1 February 2000 (Class 396/57); filed 30 July 1998

This patent describes an application of speech recognition for controlling a still-image camera while looking through the viewfinder. Various camera adjustments can be made, such as zoom, exposure, and flash. A prior



patent allowed camera control from a remote location, but not in the hand-held situation. The complete small-vocabulary recognizer is built on a single integrated circuit.—DLR

6,021,384

43.72.Ne AUTOMATIC GENERATION OF SUPERWORDS

Allen Louis Gorin and Giuseppe Riccardi, assignors to AT&T Corporation
1 February 2000 (Class 704/1); filed 29 October 1997

This is a low-cost method for obtaining some of the benefits of a word sequence probability model for speech recognition. It is well known that recognition results improve with the use of " N -gram" models, which specify the probability of occurrence of sequences of N words. However, as N increases, the memory requirements become very large. The method described here represents the most frequently occurring word sequences as single long words, referred to as "super words."—DLR

6,023,673

43.72.Ne HIERARCHICAL LABELER IN A SPEECH RECOGNITION SYSTEM

Raimo Bakis *et al.*, assignors to International Business Machines Corporation

8 February 2000 (Class 704/231); filed 4 June 1997

In this speech recognition system, the reference feature vector data is divided into subsets corresponding roughly to a coarse phonetic classification, followed by a finer classification. Additional levels may also be added such that each finer level would contain 10 to 20 times the number of reference vectors as the previous level. In this manner, total sets of tens of thousands of feature sets may be matched without greatly increasing the processing time.—DLR

6,023,676

43.72.Ne KEYWORD RECOGNITION SYSTEM AND METHOD

Adoram Erell, assignor to DSPC Israel, Limited

8 February 2000 (Class 704/241); filed 12 December 1996

This is a two-tier, isolated-word recognition system, using dynamic time warping in a speaker-dependent mode. An initial keyword match is performed in an open-microphone method. Apparently, this mode searches for a single "trigger" keyword. If that word is seen, then the system switches to a microphone "window" mode, during which any of a set of command words is expected. To improve the accuracy of detecting the

initial trigger word, a possible candidate is matched against the full command set to determine a "false match" reference level.—DLR

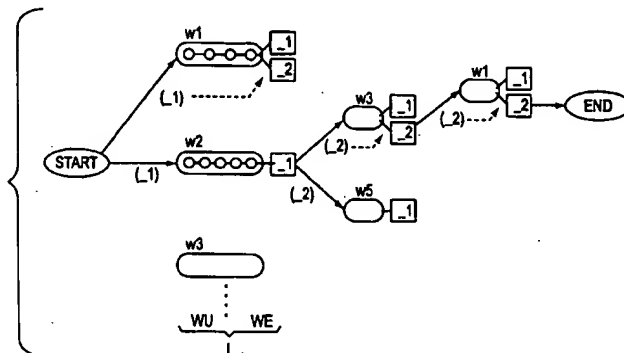
6,023,677

43.72.Ne SPEECH RECOGNITION METHOD

Fritz Class *et al.*, assignors to Daimler Benz AG

8 February 2000 (Class 704/254); filed in Germany 20 January 1995

The connected-word recognition method described here is a "rediscovery" of the well-known method of branching word graphs. Word transition probabilities are accumulated to provide a sentence match probability.



Seemingly in consideration of branching factor concerns, the system is to be limited to relatively small numbers of sentences.—DLR

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ACOUSTICAL NEWS—USA

Elaine Moran

Acoustical Society of America, 500 Sunnyside Boulevard, Woodbury, New York 11797

Editor's Note: Readers of this Journal are asked to submit news items on awards, appointments, and other activities about themselves or their colleagues. Deadline dates for news items and notices are 2 months prior to publication.

Position Open

Assistant Professor—Audio Technology

Assistant Professor of Physics (Audio Technology), one-year temporary position, subject to budgetary approval, beginning fall semester 1998. The Department seeks a person with strong interests in the technology of sound for its Audio Technology Program. Responsibilities include: teaching (mostly undergraduate), research, student advising, departmental and University service. Candidates are preferred with research interests in acoustics and audio technology. The M.S. in Audio Technology or equivalent is required. Competitive salary. The search committee will begin reviewing applications immediately and continue until the position is filled. Send letter of application, resume, and the names of three references to:

Chair, Department of Physics
American University
Washington, DC 20016-8058

American University is an EEO/AA institution, committed to a diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply.

Reports of Technical Committees

(See November and December issues for reports of other Committees)

Musical Acoustics

The 1997–98 year for the Technical Committee on Musical Acoustics (TCMU) has been a banner year for musical acoustics. The ASA meeting in San Diego in December 1997 presented a diverse program of musical acoustics. Uwe Hansen organized a special session on the piano, which featured lectures covering the physical and subjective relationships between string, hammer, bridge and soundboard, and concluded with a demonstration of a computer-based piano performance reproduction system. A special session honoring Robert W. Young's contributions to acoustics was presented, which was co-sponsored by the Technical Committees on Noise, Underwater Acoustics, and Musical Acoustics. This session was followed by the plenary session, in which Bob Young was awarded the ASA Honorary Fellowship for his contributions encompassing many areas of acoustics, to international standards and acoustical terminology, and for sustained and devoted service to the Society. Jim Beauchamp organized a special session on computer jazz improvisation, which was followed by a concert featuring a number of the presenters.

The joint meeting of the 16th International Congress on Acoustics and the ASA was held in June 1998. Appropriate to the international character of musical acoustics, an exceptionally large number of musical acoustics sessions took place. Naotoshi Osaka and Julius Smith co-chaired a session on signal modeling in music synthesis and processing, which reviewed contrasting approaches to this rapidly evolving subject. A session organized by Ed Burns (and co-sponsored by Psychological and Physiological Acoustics) on the purposeful use of nonlinear distortion in musical performance celebrated the musical innovations of Eric Dolphy and Jimi Hendrix, and was combined with a musical performance by some of the presenters and friends. Shigeru Yoshikawa organized a pair of sessions on the physics and materials of musical instruments, which provided a comprehensive review of current research. Tom Rossing and Carleen Hutchins chaired a special session on bowed string instruments. This session was appropriately followed by the plenary session, in which Carleen Hutchins was awarded the ASA Honorary Fellowship for her unique role in combining the art of violin making with the science of acoustics. The theme next turned to the subject of musical timbre, which included a special session of invited papers organized by Jim Beauchamp and which attracted a robust number of contributed papers sufficient to generate a second contributed session on timbre. A final session comprised a broad range of contributed papers on musical acoustics. The ICA/ASA meeting was concluded with a flourish by the plenary lecture on musical acoustics presented by Neville Fletcher. This lecture exhibited the impact of nonlinear dynamics and complexity on cur-

rent approaches in musical acoustics. Both the San Diego and Seattle meetings exhibited a strong representation from contributed research presentations.

The International Symposium on Musical Acoustics 1998 (ISMA98) immediately followed the ICA/ASA meeting. ISMA98 was organized by the ASA and the Catgut Acoustical Society, and was held in the Cascade mountains outside the town of Leavenworth, Washington at the Sleeping Lady Conference Center. Lectures and posters were presented by participants from 18 countries. The invited lecturers included Dean Ayers, Chris Chafe, Joseph Curtin, Brian Moore, Bernard Richardson, William Strong, and Shigeru Yoshikawa. As an experimental and successful innovation from past ISMA's, a series of workshops was organized on the general theme of bridging the gap between instrument makers and musical acousticians. The leaders of these well-attended workshops were Charles Besnainou, Uwe Hansen, William Hartmann, Carleen Hutchins, David Peterson, Oliver Rodgers, Martin Schleske, and Karen Strom. Music was heard throughout the Symposium in a set of invited concerts as well as from the participants themselves. A non-peer-reviewed Proceedings of ISMA98 has been published and an extremely limited number of copies are available from the ASA and the CAS offices. The preparations for ISMA98 included the largest TCMU technical initiatives over this year and last. ISMA98 committee members included: Carleen Hutchins (Honorary Chair), Maurits Hudig, Doug Keefe, and Charles Schmid (Organizing Committee), Tom Rossing [Chair], Joseph Curtin, Uwe Hansen, Bill Hartmann, and Oliver Rodgers (Technical Program Committee), Roger Hanson [Chair], Evan Davis, Ioana Park, Michael Park, and Karen Strom (Logistics Committee), Elizabeth McGilvray (Secretariat), Charles Schmid [Chair], Janet Jefferson, Ioana Park, and Michael Park (Proceedings Committee). ISMA98 was partially supported by a grant from The Experience Music Project Foundation.

Efforts to increase student involvement in musical acoustics have continued in 1997–98 through best student presentation contests and the inclusion of student socials at the San Diego and Seattle meetings. The winner of the San Diego contest for Best Student Presentation was John Hajda of UCLA, whose paper was entitled "Relevant acoustical cues in the identification of Western orchestral instrument tones." The winner of the Seattle contest for Best Student Presentation was Leïla Rhaoui of France, whose paper was entitled "Time-domain modeling and numerical simulation of timpani" (co-authors Patrick Joly and Antoine Chaigne). It is a continuing goal of the TCMU to increase student participation in musical acoustics.

Outside of the society-sponsored meetings, a technical initiative during the past year supported educational workshops on acoustics for teachers conducted by Uwe Hansen.

Roger Hanson is the new TCMU representative on the ASA Medals and Awards Committee, and Ian Lindevald is our new representative on the ASACOS Committee. The representatives to the Technical Program Organizing Meetings were Dean Ayers for the San Diego meeting, and Ed Burns and Doug Keefe for the Seattle meeting. Carleen Hutchins and Max Mathews completed their terms of service this year on the TCMU, and Tom Rossing concluded service as representative on the Medals and Awards Committee. New members on the TCMU include R. Dean Ayers, Judith C. Brown, Courtney B. Burroughs, Robert D. Collier, Stephen F. Duncan, George F. Emerson, James H. Irwin, Bozena Kostek, Barry Larkin, Thomas D. Rossing, Julius O. Smith, and William J. Strong. The TCMU has increased in size to reflect increased international participation among musical acousticians in the ASA, and to better represent the broad diversity of approaches within musical acoustics.

The web site for the TCMU maintains current information on musical acoustics activities and is located at <http://www.boystown.org/asamu/>

DOUGLAS H. KEEFE
Chair

The TC Noise met two times since last September, in December 1997 in San Diego and in June 1998 in Seattle. Each two-hour meeting hosted about 70 visitors and members.

We discussed the amorphous committee structure and its purpose. With no officers, no formal committee structure, no clear procedure for nomination of successor Chair, we decided to address this issue at our Norfolk, VA meeting this October.

The committee has worked hard at organizing sessions for the ASA meetings. Seattle, Norfolk, and Berlin, with a combined total of about 45 special sessions have taken up a lot of the energy in the committee.

Many of our members put effort on the acoustics of classrooms and the effect of poor acoustics on learning. Working with the TC Architectural Acoustics, ASA members put on a very successful workshop, on the West Coast and expects a similar one on the East Coast in the near future.

We have had help from many people, from session organizers, program planners, to invited speakers, to people bringing refreshments, to workshop organizers, and to contributors to the lively discussions at the meeting. We continue to welcome new people to our open meetings and solicit their participation.

RICHARD J. PEPPIN

Chair

Structural Acoustics and Vibration

The primary business of the TC was conducted at its two regular meetings held at the Fall 1997 and Spring 1998 ASA meetings. A full picture of our activities are reflected by the Minutes of the Spring and Fall 1997 meetings, which have been approved by the Technical Committee. Certain activities occur on a regular basis. These include discussing the editorial activity for JASA as a way of monitoring the level of activity in the research area, discussing and approving topics for special sessions at future ASA meetings, supervising and approving the Best Student Paper Award for submissions at the ASA meetings, and responding to queries from the Technical Council regarding matters affecting the membership. Our committee is also responsible for organizing the technical sessions in structural acoustics and vibration, which is achieved by volunteer participation at the Technical Program Organizing Meetings.

We have begun an effort to expand interest in the structural acoustics and vibration area, both by expanding our student activities, and by attempting to expand the scope of our activities. Two items of note were a pizza luncheon for students held at the Seattle meeting in June 1998, and the technical session on "New Challenges in Structural Acoustics," which was intended to highlight research areas that might benefit from expanded attention of the committee members. At the June 1998 meeting, we decided to expand the exchange of research ideas at the regular meetings. A number of concepts to achieve this objective are under consideration. Input from the membership is sought, and should be provided to the Chair.

Minutes of the SAV Technical Committee—Meeting of 19 June 1997

The TC Meeting was convened by the Chair at 8:00 p.m. in Room H of the Penn State Conference Center on 19 June 1997. The minutes of the previous TC meeting were read and approved.

Murray Strasberg requested the floor to make some remarks about the Acoustical Society Foundation that is being set up. The purpose of the foundation is to raise funds for new and on-going initiatives which support and enrich ASA programs.

The chair then reported on the issues brought up at the Technical Council Meeting. The first discussion was about the upcoming joint meeting with the European Acoustics Association (EAA) to be held in the Spring of 1999. Of the thirty members present nine indicated that they were planning to attend, and six said they would definitely not attend.

We then went on to discuss the electronic publishing items that are currently being pursued. These included the e-print, which is an electronic pre-print which will be open to comment, and not subject to review. The other item under discussion is that of short publications which will be subject to review but with a very quick turn-around time to appear in print. The aim is to have these publications in print in 8–10 weeks. One suggestion that was made by Phil Marston and seconded by others was to include abstracts of papers in the "Off print" publication which CD-ROM users receive.

The anticipated change in the dues structure was discussed a bit, but there were no serious objections. Allan Pierce talked about cooperation with the International Union of Theoretical and Applied Mechanics (IUTAM) in

preparing a white-paper on "Future Directions in Structural Mechanics." This was enthusiastically endorsed by the TC.

Jerry Ginsberg reported that two individuals with primary interest in SAV were endorsed by the Membership Committee to be Fellows of the Society.

The Associate Editors for SAV were both present and they presented the statistics for publication in the past year: 98 papers were received, 58 accepted, 7 rejected, and 44 have been sent back to the authors for revision. The SAV editors have the lowest rejection rates of all the JASA editors.

The Committee expressed its appreciation to the organizers of the Penn State Meeting a few of whom attended the TC meeting. Courtney Burroughs and Stuart Bolton were thanked for their participation in the TPOM.

We then went on to discuss Special Sessions for future meetings. Ken Cunefare will be organizing a "Memorial Session for Manfred Heckl" at the San Diego meeting. Greg McDaniel volunteered to organize a session on "New Challenges in Structural Acoustics and Vibrations" for the Seattle Meeting. Other suggested Special Sessions for the Seattle Meeting were: "SEA and Fuzzy Structures" by Dan Russell, and "Non-linear vibrations and chaos" by Sabih Hayek. Lou Herstein suggested a session for Norfolk that would review the work done at the Annapolis Detachment of CDN-SWC. This detachment has been in existence for many years and will be closing down in 1998.

The winner of the Best Student Paper Award was Benjamin Bard for his paper "Full-field visualization of ultrasonic waves in elastic solids," which was presented at the Hawaii meeting. Another Best Student Paper Award went to F. Honavar for his paper entitled "Application of resonance acoustic spectroscopy to nondestructive evaluation of clad rods." The latter paper was presented at the Penn State Meeting. The Student Paper Award Committee for the Academic year 1996–97 consisted of Chair Joe Cuchieri, Scott Sommerfeldt, and Greg McDaniel. The Chair of next year's committee will be Scott Sommerfeldt. The Committee expressed its appreciation for a job well done to Joe Cuchieri who has organized the Student Paper Award presentations for the last two years.

The incoming SAVTC Chair Jerry Ginsberg was introduced and he made some remarks about trying to attract new non-Navy problem related researchers into our community. Some discussion ensued about the Seattle meeting and the possibility of inviting aerospace research managers to discuss the structural acoustics related problems that they are pursuing. After this discussion, the meeting was adjourned.

JERRY H. GINSBERG

Chair

USA Meetings Calendar

Listed below is a summary of meetings related to acoustics to be held in the U.S. in the near future. The month/year notation refers to the issue in which a complete meeting announcement appeared.

1998

12–16 Oct. 136th meeting of the Acoustical Society of America, Norfolk, VA [ASA, 500 Sunnyside Blvd., Woodbury, NY 11797, Tel.: 516-576-2360; FAX: 516-576-2377; E-mail: asa@aip.org, WWW: http://asa.aip.org].

1999

15–19 March Joint meeting: 137th meeting of the Acoustical Society of America/2nd meeting of the European Acoustics Association [Acoustical Society of America, 500 Sunnyside Blvd., Woodbury, NY 11797, Tel.: 516-576-2360; FAX: 516-576-2377; E-mail: asa@aip.org; WWW: asa.aip.org].

27–30 June ASME Mechanics and Materials Conference, Blacksburg, VA [Mrs. Norma Guynn, Dept. of Engineering Science and Mechanics, Virginia Tech, Blacksburg, VA 24061-0219, FAX: 540-231-4574; E-mail: nguynn@vt.edu; WWW: http://www.esm.vt.edu/mmconf/]. Deadline for receipt of abstracts: 15 January 1999.

Members of Technical and Administrative Committees and Technical Groups of the Acoustical Society of America

The Technical and Administrative Committees and Technical Groups listed below have been appointed by the Executive Council. These appointments, with such changes as may be made by the President from time to time, will be in effect until the Spring meeting of the Society in 1999.

Technical Committees 1998–1999

Acoustical Oceanography

	Term to
James F. Lynch, <i>Chair</i> to 2001	2001
Holly A. Burch	2001
Marshall Hall	2001
Darrell R. Jackson	2001
Jeffrey A. Nystuen	2001
Lev A. Ostrovsky	2001
Robert Pinkel	2001
Peter F. Worcester	2001
Manell E. Zakharia	2001
Robert W. Farwell	2000
Gary J. Heald	2000
Anatoliy N. Ivakin	2000
Subramanian D. Rajan	2000
Barbara J. Sotorin	2000
Ralph A. Stephen	2000
Alexander G. Voronovich	2000
Suk Wang Yoon	2000
Michael G. Brown	1999
Christian P. de Moustier	1999
James A. Mercer	1999
Marshall H. Orr	1999
Er-Chang Shang	1999
Robert D. Stoll	1999
Dajun Tang	1999
Alexandra I. Tolstoy	1999

Ex officio:

John C. Burgess, Associate Editor of JASA
David L. Bradley, Associate Editor of JASA
Stanley A. Chin-Bing, Associate Editor of JASA
Michael J. Buckingham, member of Medals and Awards Committee
Christopher Feuilleade, member of Membership Committee
Er-Chang Shang, member of ASACOS

Animal Bioacoustics

	Term to
Whitlow W. L. Au, <i>Chair</i> to 2000	2000
Robert Hickling	2001
David A. Helweg	2001
Martin L. Lenhardt	2001
Peter M. Narins	2001
John R. Potter	2001
Daniel R. Raichel	2001
Robert H. Benson	2000
Ann E. Bowles	2000
William C. Cummings	2000
Charles R. Greene	2000
Mardi C. Hastings	2000
D. Vance Holliday	2000
David K. Mellinger	2000
Sam H. Ridgway	2000
Frank T. Awbrey	1999
William C. Burgess	1999
Daniel P. Costa	1999

Adam S. Frankel	1999
Darlene R. Ketten	1999
Larry L. Pater	1999
James A. Simmons	1999

Ex officio:

Whitlow W.L. Au, Associate Editor of JASA
David L. Bradley, Associate Editor of JASA
Stanley A. Chin-Bing, Associate Editor of JASA
Mardi C. Hastings, member of Medals and Awards Committee
Sam H. Ridgway, member of Membership Committee
Ann E. Bowles, member of ASACOS

Architectural Acoustics

	Term to
Ronald R. Freiheit, <i>Chair</i> to 2001	2001
Bennett M. Brooks	2001
Steven M. Brown	2001
Richard H. Campbell	2001
M. David Egan	2001
Richard M. Guernsey	2001
Mark A. Holden	2001
K. Anthony Hoover	2001
Dana S. Houghland	2001
David W. Kahn	2001
Gary S. Madaras	2001
Charles T. Moritz	2001
Paul B. Ostergaard	2001
Dennis A. Paoletti	2001
David J. Prince	2001
Neil A. Shaw	2001
Richard H. Talaske	2001
Ewart A. Wetherill	2001
George E. Winzer	2001
Michael R. Yantis	2001
Yoichi Ando	2000
David Braslau	2000
Dennis Fleisher	2000
John W. Kopec	2000
Robert F. Mahoney	2000
Daniel W. Martin	2000
Richard J. Peppin	2000
Scott Pfeiffer	2000
Roy L. Richards	2000
Ludwig W. Sepmeyer	2000
Gary W. Siebein	2000
David Still	2000
Robin M. Towne	2000
Lily Wang	2000
Christopher N. Blair	1999
John S. Bradley	1999
Christopher N. Brooks	1999
Angelo J. Campanella	1999
Antonio Pedro Carvalho	1999
Robert C. Coffeen	1999
Peter D'Antonio	1999
Timothy J. Foulkes	1999
J. Christopher Jaffe	1999
Mendel Kleiner	1999
David L. Klepper	1999
Edward L. Logsdon	1999
David Lubman	1999
Michael T. Nixon	1999
Jack E. Randorff	1999
H. Stanley Roller	1999
Carl J. Rosenberg	1999
Kenneth B. Scott	1999
Ben H. Sharp	1999
Noral D. Stewart	1999
Jason T. Weissenburger	1999

Ex officio:

Courtney B. Burroughs, Associate Editor of JASA
J. David Quirt, Associate Editor of JASA
Steven M. Brown, member of Medals and Awards Committee
Gregory C. Tocci, member of Membership Committee
George E. Winzer, member of ASACOS

Biomedical Ultrasound/Bioresponse to Vibration

Ronald A. Roy, *Chair* to 1999

Paul E. Barbone
Anthony J. Brammer
Diane Dalecki
J. Brian Fowlkes
Leon Frizzell
Alan K. Goble
Mark Hollins
Kullervo Hynynen
T. Douglas Mast
Doug Miller
Pierre Mourad
William D. O'Brien
Gail R. ter Haar

Stanley L. Bolanowski, Jr.
Shira L. Broschat
Robin O. Cleveland
Inder R. S. Makin
Janet M. Weisenberger
Junru Wu

Michalakias A. Averkiou
Floyd Dunn
John Erdreich
E. Carr Everbach
Christy K. Holland
Wesley L. Nyborg
William M. Rabinowitz
K. Kirk Shung

Ex officio:

Floyd Dunn, Associate Editor of JASA
Robert D. Frisina, Associate Editor of JASA
Joseph W. Hall, Associate Editor of JASA
Robert V. Shannon, Associate Editor of JASA
Wesley L. Nyborg, member of the Medals and Awards Committee
Anthony J. Brammer, member of the Membership Committee
Robin O. Cleveland, member of ASACOS

Engineering Acoustics

Thomas R. Howarth, *Chair* to 2000

Mahlon D. Burkhard
James Christoff
Dennis F. Jones
Jan F. Lindberg
Yushieh Ma
Elizabeth A. McLaughlin
Alan Powell
Roger T. Richards
Harold C. Robinson
Kenneth D. Rolt
Neil A. Shaw
James F. Tressler

Kim C. Benjamin
Allan C. Cummings
Gary W. Elko
Robert D. Finch
Guillermo C. Gaunaud
Gordon Hayward
Dehua Huang
Sung Hwan Ko

Victor Nedzelitsky
Ahmet Selamet
James E. West
Oscar B. Wilson
George S. K. Wong

Steven R. Baker
David A. Brown
Stephen C. Butler
W. Jack Hughes
K. Kirk Shung
R. Lowell Smith
Stephen C. Thompson
Arnie L. Van Buren
A. Mark Young

Ex officio:

Henry E. Bass, Associate Editor of JASA
Stanley L. Ehrlich, Associate Editor of JASA
Robert D. Finch, member of Medals and Awards Committee
Sung H. Ko, member of Membership Committee
Mahlon D. Burkhard, member of ASACOS

Musical Acoustics

Douglas H. Keefe, *Chair* to 1999

R. Dean Ayers
Judith C. Brown
Courtney B. Burroughs
Robert D. Collier
Stephen F. Duncan
George F. Emerson
James H. Irwin
Bozena Kostek
Barry Larkin
Thomas D. Rossing
Julius O. Smith
William J. Strong

James W. Beauchamp
Rene E. Causse
W. Jay Dowling
William M. Hartmann
Adrianus J. Houtsma
Bruce A. Lawson
James M. Pyne
Shigeru Yoshikawa

George A. Bissinger
James P. Cottingham
Uwe J. Hansen
Peter L. Hoekje
Ian M. Lindevald
Daniel W. Martin

Ex officio:

Stanley L. Ehrlich, Associate Editor of JASA
William J. Strong, Associate Editor of JASA
Roger J. Hanson, member of Medals and Awards Committee
Uwe J. Hansen, member of Membership Committee
Ian M. Lindevald, member of ASACOS

Noise

Richard J. Peppin, *Chair* to 2000

Martin Alexander
John P. Barry
Leo L. Beranek
Arno S. Bommer
Anthony J. Brammer
James O. Buntin
Robert J. Cook
Kenneth A. Cunefare

Joseph P. Cuschieri	2001	George Mozurkewich	2001
Paul R. Donavan	2001	Vladimir Ostashev	2001
William D. Gallagher	2001	Victor W. Sparrow	2001
Gerald C. Lauchle	2001	Keith Attenborough	2000
Anna Maria Monslave	2001	Yves H. Berthelot	2000
Miomir Mijic	2001	James P. Chambers	2000
Thomas Norris	2001	Robin O. Cleveland	2000
Larry H. Royster	2001	Kerry W. Commander	2000
John P. Seiler	2001	D. Felipe Gaitan	2000
Noral D. Stewart	2001	Mark F. Hamilton	2000
Michael R. Stinson	2001	Steven G. Kargl	2000
Alice H. Suter	2001	Philip L. Marston	2000
Louis C. Sutherland	2001	Thomas J. Matula	2000
Jiri Tichy	2001	Kenneth J. Plotkin	2000
Dennis Walton	2001	Harry Simpson	2000
Keith Attenborough	2000	D. Keith Wilson	2000
Sergio Beristain	2000	Robert E. Apfel	1999
Robert D. Bruce	2000	Anthony A. Atchley	1999
John C. Burgess	2000	Lawrence A. Crum	1999
Angelo J. Campanella	2000	Floyd Dunn	1999
Robert J. Comparin	2000	E. Carr Everbach	1999
T. James DuBois	2000	David I. Havelock	1999
John J. Earshen	2000	D. Kent Lewis	1999
Tony F. W. Embleton	2000	Julian D. Maynard, Jr.	1999
John Erdreich	2000	Michael R. Moldover	1999
B. John Feng	2000	Ronald A. Roy	1999
Robert D. Hellweg	2000	Charles Thompson	1999
Robert M. Hoover	2000	Wayne M. Wright	1999
Daniel L. Johnson	2000	<i>Ex officio:</i>	
Tor S. D. Kihlman	2000	Henry E. Bass, Associate Editor of JASA	
Sonoko Kuwano	2000	Mack A. Breazeale, Associate Editor of JASA	
Chantal Laroché	2000	Mark F. Hamilton, Associate Editor of JASA	
Robert Lotz	2000	Courtney B. Burroughs, Associate Editor of JASA	
Alan H. Marsh	2000	Floyd Dunn, Associate Editor of JASA	
Ralph T. Muehleisen	2000	Dale E. Chimenti, Associate Editor of JASA	
Kenneth J. Plotkin	2000	Andrew N. Norris, Associate Editor of JASA	
Joseph Pope	2000	Paul J. Remington, Associate Editor of JASA	
Julia D. Royster	2000	Louis C. Sutherland, Associate Editor of JASA	
Brigitte Schulte-Fortkamp	2000	Anthony A. Atchley, member of Medals and Awards Committee	
Jean Tourret	2000	Steven L. Garrett, member of Membership Committee	
Robert W. Young	2000	Sameer I. Madanshetty, member of ASACOS	
Elliott H. Berger	1999		
Bennett M. Brooks	1999		
Lawrence S. Finegold	1999		
Jerry G. Lilly	1999		
George A. Luz	1999		
Luc Mongeau	1999		
Mary M. Prince	1999		
Jack E. Randorff	1999		
Nancy S. Timmerman	1999		
Laura A. Wilber	1999		
<i>Ex officio:</i>			
Michael R. Stinson, Associate Editor of JASA			
Stanley L. Ehrlich, Associate Editor of JASA			
Elliott H. Berger, member of Medals and Awards Committee			
Daniel L. Johnson, member of Membership Committee			
Arno S. Bommer, member of ASACOS			
<i>Physical Acoustics</i>		<i>Psychological and Physiological Acoustics</i>	
	Term to		Term to
James M. Sabatier, <i>Chair</i> to 1999	1999	Donna L. Neff, <i>Chair</i> to 1999	1999
David T. Blackstock	2001	Prudence Allen	2001
David A. Brown	2001	Robert P. Carlyon	2001
Gilles A. Daigle	2001	David F. Dolan	2001
Bruce Denardo	2001	Brent W. Edwards	2001
Steven L. Garrett	2001	Nina Kraus	2001
Logan E. Hargrove	2001	John J. Rosowski	2001
Craig J. Hickey	2001	David A. Eddins	2000
Andres Larraza	2001	Mary Florentine	2000
William Moss	2001	John H. Grose	2000
		Marjorie R. Leek	2000
		Elizabeth A. Strickland	2000
		Fan-Gang Zeng	2000
		Leslie R. Bernstein	1999
		Amy M. Donahue	1999
		Gerald D. Kidd, Jr.	1999
		Ruth Y. Litovsky	1999
		Dennis McFadden	1999
		Robert V. Shannon	1999
		<i>Ex officio:</i>	
		D. Wesley Grantham, Associate Editor of JASA	
		Robert D. Frisina, Associate Editor of JASA	

Vasundara V. Varadan	2000
Richard D. Vogelsong	2000
Sean F. Wu	2000
John A. Burkhardt	1999
Courtney B. Burroughs	1999
Joseph M. Cuschieri	1999
Alison Flatau	1999
Richard F. Keltie	1999
Jean R. Nicolas	1999
Allan D. Pierce	1999
Victor W. Sparrow	1999

Term to

Ex officio:

Paul J. Remington, Associate Editor of JASA
Courtney B. Burroughs, Associate Editor of JASA and member of
Membership Committee
Allan D. Pierce, member of Medals and Awards Committee
Louis A. Herstein, member of ASACOS

Underwater Acoustics

	Term to
George V. Frisk, <i>Chair to 2000</i>	2000
Michael G. Brown	2001
Dennis B. Creamer	2001
Christian P. de Moustier	2001
Stanley E. Dosso	2001
Stewart A. L. Glegg	2001
Zoi-Heleni Michalopoulou	2001
Marshall H. Orr	2001
Gregory J. Orris	2001
James C. Presig	2001
Daniel Rouseff	2001
William L. Siegmann	2001
David L. Bradley	2000
Curtis I. Caldwell	2000
William M. Carey	2000
Nicholas P. Chotiros	2000
Donald R. Del Balzo	2000
Frederick R. DiNapoli	2000
David R. Dowling	2000
Robert W. Farwell	2000
Roger C. Gauss	2000
Darrell R. Jackson	2000
Finn B. Jensen	2000
Roger W. Meredith	2000
John R. Preston	2000
Henrik Schmidt	2000
Ralph A. Stephen	2000
Robert D. Stoll	2000
Frederick D. Tappert	2000
Alexander G. Voronovich	2000
R. Jeffrey Wilkes	2000
Tsih C. Yang	2000
Robert A. Zingarelli	2000
Ralph N. Baer	1999
Shira L. Broschat	1999
Berlie A. Brunson	1999
Peter G. Cable	1999
Marshall V. Hall	1999
Samuel W. Marshall	1999
Dan J. Ramsdale	1999
Timothy H. Ruppel	1999
Natalia A. Sidorovskaia	1999
Kevin B. Smith	1999
Dajun Tang	1999
Christopher T. Tindle	1999
Alexandra I. Tolstov	1999

Ex officio:

James L. Hieronymus, Associate Editor of JASA
Anders Lofqvist, Associate Editor of JASA
James M. Hillenbrand, Associate Editor of JASA
Winifred Strange, member of Medals and Awards Committee
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Ex officio:

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Term to
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13/3,K/1 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
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14740001 PASCAL No.: 00-0417106
Programmable hearing aid system and method for determining optimum
parameter sets in a hearing aid
WEINFURTNER Oliver ; HOLUBE Inga
Journal: The Journal of the Acoustical Society of America, 2000-10, 108
(4) 1379-1380
Language: English

Copyright (c) 2000 American Institute of Physics. All rights reserved.

Programmable hearing aid system and method for determining optimum
parameter sets in a hearing aid
WEINFURTNER Oliver ; HOLUBE Inga

English Descriptors: Instrumentation; Measuring methods; Hearing aids ;
Acoustic filters; Performance evaluation

13/3,K/2 (Item 2 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

13729255 PASCAL No.: 98-0421344
Programmable hearing aid with fuzzy logic control of transmission
characteristics
WEINFURTNER Oliver
Journal: The Journal of the Acoustical Society of America, 1998-10, 104
(4) p. 1897
Language: English

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Programmable hearing aid with fuzzy logic control of transmission
characteristics
WEINFURTNER Oliver

English Descriptors: Instrumentation; Measuring methods; Hearing aids ;
Fuzzy logic; Audio-frequency amplifiers; Acoustic noise; Acoustic wave
transmission

13/3,K/3 (Item 3 from file: 144)
DIALOG(R)File 144:Pascal
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13387677 PASCAL No.: 97-0573072
Device for the adaption of programmable hearing aids
WEINFURTNER Oliver
Journal: The Journal of the Acoustical Society of America, 1997-08, 102
(2) p. 681
Language: English

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Device for the adaption of programmable hearing aids
WEINFURTNER Oliver

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File 248:PIRA 1975-2005/Oct W3
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Set	Items	Description
S1	19890	HEAR??? (3N) (AID?? OR DEVIC??)
S2	441264	MICROPHON?? OR SPEAKER?? OR AMPLIFIER??
S3	30776	IDENTIFICATION?? (3N) (UNIT?? OR DEVIC?? OR EQUIPMENT?? OR T- ERMINAL?? OR APPARATUS??) OR (CONFIGURATION?? OR SPECIFICATIO- N??) (3N) DATA
S4	1569319	MEMORY?? OR STORAGE??
S5	1414735	COMPARATOR?? OR FILTER?? OR LOGIC??
S6	26	AU=(WEINFURTNER O? OR WEINFURTNER, O?)
S7	0	S1 AND S2 AND S3 AND S4 AND S5
S8	1	S1 AND S2 AND S3 AND S4
S9	2	S1 AND S2 AND S3
S10	1	S9 NOT S8
S11	4	S6 AND S1
S12	3	RD (unique items)
S13	3	S12 NOT S9

8/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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07476153 E.I. No: EIP05269186953

Title: Design and construction of a talking call line identification unit

Author: Beukes, Marius A.; Lacquet, Beatrys M.

Corporate Source: Department of Electrical and Electronic Engineering
Rand Afrikaans University, Aucklandpark, 2006, South Africa

Conference Title: 2004 IEEE AFRICON: 7th AFRICON Conference in Africa:
Technology Innovation

Conference Location: Gaborone, Botswana Conference Date:
20040915-20040917

E.I. Conference No.: 65044

Source: IEEE AFRICON Conference 2004 IEEE AFRICON: 7th AFRICON Conference
in Africa: Technology Innovation v 1 2004. (IEEE cat n 04CH37590)

Publication Year: 2004

Language: English

Title: Design and construction of a talking call line identification unit

...Abstract: at an affordable cost. We present the design and construction of a talking call line **identification** (TCLI) **unit** with integrated sound output to be used on Telkom**1 lines. This unit incorporates audio...

...The reproduction of a human voice is accomplished by prerecording on a solid-state Information **Storage** Device (ISD) that is capable of recording eight minutes of voice data. This enables the...

Descriptors: ***Hearin g aids** ; Electronic equipment; Product design; Liquid crystal displays; Frequency shift keying; Phase modulation; Microcontrollers; Sound recording; **Amplifiers** (electronic); ROM; Random access **storage**

Identifiers: Calling line identity (CLI); Information **storage** devices (ISD); Visually impaired; Telephone line terminal equipment; Audio-output
?

10/3,K/1 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01986542 ORDER NO: AADAA-IC815593

Talking heads: Models and applications for multimodal speech synthesis

Author: Beskow, Jonas

Degree: Ph.D.

Year: 2003

Corporate Source/Institution: Kungliga Tekniska Hogskolan (Sweden) (1022)

Source: VOLUME 65/02-C OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 289. 139 PAGES

ISBN: 91-7283-536-2

Publisher: Royal Institute of Technology, SE-100 44 Stockholm, Sweden

...improve the realism and validity of facial and intra-oral speech movements, measurements from real **speakers** have been incorporated from several types of static and dynamic data sources. These include ultrasound ...

...been developed. The rule-based model effectively handles forward and backward coarticulation by target under- **specification** , while the **data** -driven model uses ANNs to estimate articulatory parameter trajectories, trained on trajectories resynthesised from optical...

...of the systems is discussed. A telecommunication application where the talking head functions as an **aid** for **hearing** -impaired users is also described, as well as a speech training application where talking heads...
?

13/3,K/1 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
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14740001 PASCAL No.: 00-0417106
**Programmable hearing aid system and method for determining optimum
parameter sets in a hearing aid**
WEINFURTNER Oliver ; HOLUBE Inga
Journal: The Journal of the Acoustical Society of America, 2000-10, 108
(4) 1379-1380
Language: English

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**Programmable hearing aid system and method for determining optimum
parameter sets in a hearing aid**
WEINFURTNER Oliver ; HOLUBE Inga

English Descriptors: Instrumentation; Measuring methods; **Hearing aids ;**
Acoustic filters; Performance evaluation

13/3,K/2 (Item 2 from file: 144)
DIALOG(R)File 144:Pascal
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13729255 PASCAL No.: 98-0421344
**Programmable hearing aid with fuzzy logic control of transmission
characteristics**
WEINFURTNER Oliver
Journal: The Journal of the Acoustical Society of America, 1998-10, 104
(4) p. 1897
Language: English

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**Programmable hearing aid with fuzzy logic control of transmission
characteristics**
WEINFURTNER Oliver

English Descriptors: Instrumentation; Measuring methods; **Hearing aids ;**
Fuzzy logic; Audio-frequency amplifiers; Acoustic noise; Acoustic wave
transmission

13/3,K/3 (Item 3 from file: 144)
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13387677 PASCAL No.: 97-0573072
Device for the adaption of programmable hearing aids
WEINFURTNER Oliver
Journal: The Journal of the Acoustical Society of America, 1997-08, 102
(2) p. 681
Language: English

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Device for the adaption of programmable hearing aids
WEINFURTNER Oliver

English Descriptors: Instrumentation; Acoustic devices ; Hearing aids ;
Audio-frequency amplifiers; Fuzzy logic

File 344:Chinese Patents Abs Aug 1985-2005/May
(c) 2005 European Patent Office
File 347:JAPIO Nov 1976-2005/Jul(Updated 051102)
(c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200570
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File 371:French Patents 1961-2002/BOPI 200209
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Set	Items	Description
S1	7306	HEAR??? (3N) (AID?? OR DEVIC??)
S2	435339	MICROPHON?? OR SPEAKER?? OR AMPLIFIER??
S3	35693	IDENTIFICATION?? (3N) (UNIT?? OR DEVIC?? OR EQUIPMENT?? OR T- ERMINAL?? OR APPARATUS??) OR (CONFIGURATION?? OR SPECIFICATIO- N??) (3N) DATA
S4	1827836	MEMORY?? OR STORAGE??
S5	1064668	COMPARATOR?? OR FILTER?? OR LOGIC??
S6	34	AU=(WEINFURTNER O? OR WEINFURTNER, O?)
S7	1	S1 AND S2 AND S3 AND S4
S8	0	S7 AND S5
S9	3	S1 AND S2 AND S3
S10	2	S9 NOT S7
S11	12	S6 AND S1
S12	0	S11 AND S2 AND S3

7/3,K/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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008997575 **Image available**

WPI Acc No: 1992-124847/199216

XRPX Acc No: N92-093359

Hearing aid incorporating data memory - holds hearing aid
identification data which is fed to output device upon control signal
reception

Patent Assignee: SIEMENS AG (SIEI); SIEMENS AUDIOLOGISCHE TECHNIK GMBH

(SIEI); SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)

Inventor: MARTIN R; WAGNER J

Number of Countries: 011 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 480097	A	19920415	EP 90119638	A	19901012	199216 B
JP 4265100	A	19920921	JP 91290747	A	19911009	199244
US 5210803	A	19930511	US 91769731	A	19911002	199320
EP 480097	B1	19941221	EP 90119638	A	19901012	199504
DE 59008091	G	19950202	DE 508091	A	19901012	199510
			EP 90119638	A	19901012	

Priority Applications (No Type Date): EP 90119638 A 19901012

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 480097	A	G	9		
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Designated States (Regional): AT CH DE DK FR GB IT LI NL

JP 4265100	A		6	H04R-025/00	
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US 5210803	A		8	H04R-025/00	
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EP 480097	B1	G	8	H04R-025/00	
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Designated States (Regional): AT CH DE DK FR GB IT LI NL

DE 59008091	G			H04R-025/00	Based on patent EP 480097
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Hearing aid incorporating data memory - ...

...holds hearing aid identification data which is fed to output device
upon control signal reception

...Abstract (Basic): The hearing aid has a microphone (3), an
amplifier (5, 7) and a loudspeaker (8), with a data memory (14, 30)
acting as part of an identification device (29) and storing a
hearing aid identification parameter. The latter can be fed from the
data memory (14, 3) to an output device (31) for identifying the
hearing aid .

...The output device for the hearing aid identification data may be
provided by the loudspeaker (8), or by a separate LED display...

...output of the identification data initiated by an internal control
signal pref. received via the microphone (3...

...USE - For identifying each hearing aid .

...Abstract (Equivalent): Hearing aid having a microphone (3), an
amplifier (5, 7), an earphone (8) and a device for identifying the
hearing aid (1; 28), which identification device comprises a
data storage (14) in which at least one hearing aid feature is
stored, wherein, with the aid of the stored hearing aid feature,
there can be determined the hearing aid features of the respective

hearing aid which are required for matching the hearing aid to the respective hearing impairment of the user who will be wearing the hearing aid, characterised in that the stored hearing aid feature can be output in a wireless manner by way of at least one output means (8; 31; 32) of the identification device (27; 29) of the hearing aid when an externally generated control signal is supplied to the hearing aid and this control signal has a coding for outputting the hearing aid feature and in that the control signal generated from a transmitter (2) known per se is a sound signal and can be supplied to the identification device (27; 29) of the hearing aid by way of the microphone (3) of the hearing aid " (1, 28

...Abstract (Equivalent): The hearing aid comprises a microphone, an amplifier connected to the microphone and an earphone connected to an output of the amplifier. An identification unit having a data storage containing at least one hearing aid feature provides information for a person to identify the hearing aid and thus allow that person to match the hearing aid to a particular hearing impairment of a user who will be wearing the hearing aid. A second unit wirelessly outputs the person the at least one hearing aid feature...

...The second unit includes the earphone connected to serve both as an output of the hearing aid for amplified sound and also for outputting at least one hearing aid feature. The first unit outputs from the hearing aid at least one feature via the earphone. A telephone coil of the hearing aid is used as part of the second unit...

...ADVANTAGE - Number of hearing aid features identifiable at hearing aid is increased without greater space requirement...

...Title Terms: MEMORY ;

?

10/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

016361388 **Image available**

WPI Acc No: 2004-519295/200450

Related WPI Acc No: 2003-815127

XRPX Acc No: N04-411434

Hearing aid adjustment procedure uses control unit to change
parameters within allowed ranges or using a set of rules to suit
environment processing

Patent Assignee: PHONAK AG (PHON-N)

Inventor: BAECHLER H; BORETZKI M; LAUNER S; MEIER H

Number of Countries: 031 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1432282	A2	20040623	EP 200326365	A	20031118	200450 B

Priority Applications (No Type Date): EP 20037004 A 20030327

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

EP 1432282	A2	G	8	H04R-025/00	
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Hearing aid adjustment procedure uses control unit to change
parameters within allowed ranges or using a set...

Abstract (Basic):

... A hearing aid (1) adjustment procedure uses stored
instantaneous environment related parameters simultaneously adjusted
(11) by the user...

... Includes INDEPENDENT CLAIMS for hearing aids using the
procedure and for input from a remote control unit...

... Hearing aid adjustment procedure...

...Allows manual or automatic adjustment of the hearing aid settings of
optimise the user preferences. Allows simple setting of parameter for
purpose such as...

...The drawing is a block diagram of a hearing aid using the procedure
...

... Hearing aid (1...

... Microphones (2a, b...

...Signal identification unit (10

10/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013443255 **Image available**

WPI Acc No: 2000-615198/200059

XRPX Acc No: N00-455778

Voice recognition device for hearing impaired, has recognition tool
which stimulates position of the human finger based on preset voice
pattern

Patent Assignee: INOUE T (INOUE-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000245769	A	20000912	JP 9956209	A	19990303	200059 B

Priority Applications (No Type Date): JP 9956209 A 19990303

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000245769	A	3	A61F-011/04	

Voice recognition device for hearing impaired, has recognition tool which stimulates position of the human finger based on preset voice...

Abstract (Basic):

... A vocal **identification device** (2) connected to a **microphone** (1), identifies preset pattern of voice. A recognition tool (3) such as a glove stimulates...

... **Microphone** (1...

...Vocal **identification device** (2

?

File 9:Business & Industry(R) Jul/1994-2005/Nov 02
 (c) 2005 The Gale Group
 File 15:ABI/Inform(R) 1971-2005/Nov 03
 (c) 2005 ProQuest Info&Learning
 File 16:Gale Group PROMT(R) 1990-2005/Nov 03
 (c) 2005 The Gale Group
 File 20:Dialog Global Reporter 1997-2005/Nov 03
 (c) 2005 Dialog
 File 47:Gale Group Magazine DB(TM) 1959-2005/Nov 03
 (c) 2005 The Gale group
 File 75:TGG Management Contents(R) 86-2005/Oct W4
 (c) 2005 The Gale Group
 File 80:TGG Aerospace/Def.Mkts(R) 1982-2005/Nov 02
 (c) 2005 The Gale Group
 File 88:Gale Group Business A.R.T.S. 1976-2005/Nov 03
 (c) 2005 The Gale Group
 File 98:General Sci Abs/Full-Text 1984-2004/Dec
 (c) 2005 The HW Wilson Co.
 File 112:UBM Industry News 1998-2004/Jan 27
 (c) 2004 United Business Media
 File 141:Readers Guide 1983-2004/Dec
 (c) 2005 The HW Wilson Co
 File 148:Gale Group Trade & Industry DB 1976-2005/Nov 03
 (c)2005 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 275:Gale Group Computer DB(TM) 1983-2005/Nov 02
 (c) 2005 The Gale Group
 File 264:DIALOG Defense Newsletters 1989-2005/Nov 02
 (c) 2005 Dialog
 File 369:New Scientist 1994-2005/Jul W3
 (c) 2005 Reed Business Information Ltd.
 File 370:Science 1996-1999/Jul W3
 (c) 1999 AAAS
 File 484:Periodical Abs Plustext 1986-2005/Oct W5
 (c) 2005 ProQuest
 File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
 (c) 2005 The HW Wilson Co
 File 570:Gale Group MARS(R) 1984-2005/Nov 02
 (c) 2005 The Gale Group
 File 608:KR/T Bus.News. 1992-2005/Nov 03
 (c)2005 Knight Ridder/Tribune Bus News
 File 620:EIU:Viewswire 2005/Oct 19
 (c) 2005 Economist Intelligence Unit
 File 613:PR Newswire 1999-2005/Nov 03
 (c) 2005 PR Newswire Association Inc
 File 621:Gale Group New Prod.Annou.(R) 1985-2005/Nov 03
 (c) 2005 The Gale Group
 File 623:Business Week 1985-2005/Oct 27
 (c) 2005 The McGraw-Hill Companies Inc
 File 624:McGraw-Hill Publications 1985-2005/Nov 02
 (c) 2005 McGraw-Hill Co. Inc
 File 634:San Jose Mercury Jun 1985-2005/Nov 02
 (c) 2005 San Jose Mercury News
 File 635:Business Dateline(R) 1985-2005/Nov 03
 (c) 2005 ProQuest Info&Learning
 File 636:Gale Group Newsletter DB(TM) 1987-2005/Nov 03
 (c) 2005 The Gale Group
 File 647:CMP Computer Fulltext 1988-2005/Oct W4
 (c) 2005 CMP Media, LLC
 File 696:DIALOG Telecom. Newsletters 1995-2005/Nov 02

(c) 2005 Dialog
 File 674:Computer News Fulltext 1989-2005/Oct W2
 (c) 2005 IDG Communications
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 587:Jane`s Defense&Aerospace 2005/Oct W5
 (c) 2005 Jane`s Information Group

Set	Items	Description
S1	65395	HEAR??? (3N) (AID?? OR DEVIC??)
S2	1679458	MICROPHON?? OR SPEAKER?? OR AMPLIFIER??
S3	70236	IDENTIFICATION?? (3N) (UNIT?? OR DEVIC?? OR EQUIPMENT?? OR T- ERMINAL?? OR APPARATUS??) OR (CONFIGURATION?? OR SPECIFICATIO- N??) (3N) DATA
S4	3755191	MEMORY?? OR STORAGE??
S5	2039517	COMPARATOR?? OR FILTER?? OR LOGIC??
S6	0	AU=(WEINFURTNER O? OR WEINFURTNER, O?)
S7	0	S1(S) S2(S) S3(S) S4(S) S5
S8	0	S1(S) S2(S) S3(S) S4
S9	19	S1 AND S2 AND S3 AND S4
S10	15	RD (unique items)
S11	13	S10 NOT PY>2000
S12	12	S11 AND S5
S13	1	S11 NOT S12
S14	0	S1(S) S2(S) S3
?		

12/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07354323 Supplier Number: 58372230 (USE FORMAT 7 FOR FULLTEXT)

Product Times.

Electronics Times, p29

March 2, 1998

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 8794

... and disassembler, software trace, conditioned break points and debugger for MS Windows.

64Kbyte of code **memory** is provided to allow users' programs to be downloaded and modified. The break points can...

...at a user target code address as well as a system code address, if this **memory** can be written by the microcontroller.

All I/O lines are readily accessible and may...

...features wire, cable, tubing

Alpha Wire has launched a 400-page catalogue which includes product **data**, **specifications** and a complete reference guide covering the company's range of wire, cable and tubing...in the event of failure without interrupting the power supply or the telephone service.

The **heart** of the **device** is an SP1470 power supply, which provides an accurate 56V DC output at up to...

...for exporting to industry standard software such as Microsoft's Excel.

From here, users can **filter**, sort and identify the source of a platform trip. In addition, the same information can...family

EDI has developed a high-speed 256Kbyte X 32 synchronous pipeline burst SRAM external **memory** for Texas Instruments' (TI) C6x DSP family.

Known as the EDI2DL32256V, the 3.3V device...Electronics allows small-pitched PCBs to be connected together or to other components such as **microphones** and **speakers**.

These low resistance devices consist of a row of gold-plated brass wires in solid...

...Enquiry Number 527

Modem can store fax and voice messages

Pace has introduced a self- **memory** modem which can act as a standalone answer machine and/or **speaker** phone, and can store incoming fax and voice messages.

Known as the 56 Solo, the...

...serial peripheral interface at 2Mbit/s. Since the settings are stored in nonvolatile, electrically erasable **memory** they remain even when power is removed from the devices.

Alongside the X9400 are two used for general purpose non-volatile **storage**.

The devices use CMOS transistor gates to switch the wiper to the desired resistance value...

...card readers.

DataStrip is a high-density printed code which can provide much higher data **storage** than is possible using conventional magnetic stripes and can be easily printed on to plastic cards. It provides a cost-effective **storage** medium wherever there is a need for security and instant

retrieval of data. It canConnector arrays offer high data transfers

Instec has introduced a range of low-pass **filtered** discoidal Sub-D and circular connector arrays which meet the designer's requirements for systems with high-speed data transfer rates.

The planar discoidal **filter** arrays have a high capacitance to ground per hole and different capacitance values can be...

...and each converter can yield a power efficiency of up to 75%. I/O noise **filters** are built in and so is a self-resetting overload protection circuit.

Some 13 variants...

...particularly well-suited to ADSL applications including central office switches and multiplexers.

It features four **amplifiers**, two of which perform the line driver tasks, while the remaining two have the performance characteristics of receivers. All four **amplifiers** have a very high slew rate of 1000V/ms, assuring very low levels of total harmonic distortion.

Crosstalk is minimised because each of the four **amplifiers** has its own separate power supply pin, plus the driver/ receivers can be configured differentially...size industrial single-board computer (SBC) with PCI 10/100Base-Tx Ethernet, a 2Mbyte video **memory** and networking.

For use in high-powered mobile or space-sensitive applications, the SBC has...is also suitable for graphics frame buffer applications where new controllers can address 10bit of **memory** from a DRAM buffer.

In printers, the speed of the device can reduce processor data... Campbell Scientific's enhanced CR10X measurement and control module.

The unit incorporates 2M?byte of **memory** and an option to support external ram cards, and an industrial Mobus communications protocol can...

...and simplifies PCB design, while increasing product reliability.

Enter 38 on enquiry card

Drop-in **filter** solutions

Cinch's **Filter** -D series connectors - available from Surtech - are drop-in replacements for their non- **filter** counterparts. This makes EMC upgrading easy and cost effective.

The Cinch product offering extends from the simplest discrete **filter**, through to a total turnkey system approach.

Cinch have also expanded their range of **filter** D products with a new series of low profile **filter** adapters, resulting in the most comprehensive line-up available from a single supplier.

The product...

...performance in a wide range of applications, including telecommunications, computing, instrumentation and industrial equipment.

The **filter** adapter is ideal for equipment testing for EMC compliance, and allows the user to retrofit...

12/3,K/2 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2005 Dialog. All rts. reserv.

11556276 (USE FORMAT 7 OR 9 FOR FULLTEXT)

JUNE 14, 2000

CCN DISCLOSURE

June 19, 2000

JOURNAL CODE: WCCN LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 778

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Quality of Service (QoS), performance, cost and power consumption."
Bluetooth is a widely supported industry **specification** for a wireless **data** link that allows short-range transmission of voice and data within and between electronic devices...

... Firefly embedded microcontroller core, Mitel's Bluetooth Baseband Peripheral (BBP) block, an audio CODEC, program **memory**, and USB and UART host interfaces. Consistent with Mitel's low power design strategy, the...

...full software protocol stack up to the HCI level.

The MT1020's CODEC includes a **microphone amplifier**, earpiece driver and **filter** compliant to the ITU-T G.712 standard. With its extremely low power consumption, the...

... Internet systems; and applications-specific integrated circuits (ASICs) for medical applications such as pacemakers and **hearing aids**.

Mitel is a growing global provider of converging voice and data systems and applications, and...

12/3,K/3 (Item 2 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 Dialog. All rts. reserv.

11506644 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Mitel Corporation. - Re Bluetooth Applications

REGULATORY NEWS SERVICE

June 14, 2000

JOURNAL CODE: WRNS LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 816

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Quality of Service (QoS), performance, cost and power consumption."
Bluetooth is a widely supported industry **specification** for a wireless **data** link that allows short-range transmission of voice and data within and between electronic devices...

... Firefly embedded microcontroller core, Mitel's Bluetooth Baseband Peripheral (BBP) block, an audio CODEC, program **memory**, and USB and UART host interfaces. Consistent with Mitel's low power design strategy, the...

...full software protocol stack up to the HCI level.

The MT1020's CODEC includes a **microphone amplifier**, earpiece driver and **filter** compliant to the ITU-T G.712 standard. With its extremely low power consumption, the...

... Internet systems; and applications-specific integrated circuits (ASICs) for medical applications such as pacemakers and **hearing aids**.

Mitel is a growing global provider of converging voice and data systems and applications, and...

12/3,K/4 (Item 3 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 Dialog. All rts. reserv.

11504584 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**(BW) Mitel Announces Industry's First Bluetooth Chip with Full-Duplex
CODEC: New Baseband Controller Maximizes Voice Quality in Emerging
Bluetooth Applications**

BUSINESS WIRE

June 14, 2000

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 784

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Quality of Service (QoS), performance, cost and power consumption."

Bluetooth is a widely supported industry **specification** for a wireless **data** link that allows short-range transmission of voice and data within and between electronic devices...

... Firefly embedded microcontroller core, Mitel's Bluetooth Baseband Peripheral (BBP) block, an audio CODEC, program **memory**, and USB and UART host interfaces. Consistent with Mitel's low power design strategy, the...

...full software protocol stack up to the HCI level.

The MT1020's CODEC includes a **microphone amplifier**, earpiece driver and **filter** compliant to the ITU-T G.712 standard. With its extremely low power consumption, the...

... Internet systems; and applications-specific integrated circuits (ASICs) for medical applications such as pacemakers and **hearing aids**.

Mitel is a growing global provider of converging voice and data systems and applications, and...

12/3,K/5 (Item 4 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2005 Dialog. All rts. reserv.

11501091 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**MITEL: Mitel announces industry's first Bluetooth chip with full-duplex
CODEC -- New baseband controller maximizes voice quality in emerging
Bluetooth applications**

M2 PRESSWIRE

June 14, 2000

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 819

(USE FORMAT 7 OR 9 FOR FULLTEXT)

Bluetooth is a widely supported industry **specification** for a wireless **data** link that allows short-range transmission of voice and data within and between electronic devices...

... Firefly embedded microcontroller core, Mitel's Bluetooth Baseband Peripheral (BBP) block, an audio CODEC, program **memory**, and USB and UART host interfaces. Consistent with Mitel's low power design strategy, the...

...full software protocol stack up to the HCI level.

The MT1020's CODEC includes a **microphone amplifier**, earpiece driver and **filter** compliant to the ITU-T G.712 standard. With its extremely low power consumption, the...

... Internet systems; and applications-specific integrated circuits (ASICs) for medical applications such as pacemakers and **hearing aids**.

Mitel is a growing global provider of converging voice and data systems and applications, and...

12/3,K/6 (Item 1 from file: 141)
DIALOG(R)File 141:Readers Guide
(c) 2005 The HW Wilson Co. All rts. reserv.

03536876 H.W. WILSON RECORD NUMBER: BRGA97036876 (USE FORMAT 7 FOR FULLTEXT)

Industry resources 1997/1998.

AUGMENTED TITLE: special issue

TCI (TCI) v. 31 (June/July '97) p. 14-18+

WORD COUNT: 215730

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... Robert Bird
Hours: 8:00am - 4:30pm, M-F
Manufacturer of commercial/professional audio power **amplifiers** and graphic equalizers.

AC LIGHTING INC.
5308 Derry Ave., Unit R, Agoura Hills, CA 91301...

...Contact: Bob Gordon
Hours: 8:30AM - 5:30PM, Mon - Fri
Exclusive US distributor for Jands **memory** lighting consoles with manual control, Wholehog II integrated lighting control system, Jands-Hog, WYSIWYG lighting visualization software, Chroma-Q quality, inexpensive 16 frame color changer, Procolor lighting **filters**, and the Stardraw CAD and Visualization software.

A.C. LIGHTING LTD.
Unit 3, Spearmast Ind...Hours: 8:00AM - 5:00PM, Central, Mon - Fri
Parent Company: Harman International Distributor of AKG **microphones**, headphones, stands, and accessories. Sales through dealer network only.

AMX CORP.*
11995 Forestgate Dr., Dallas...

...remotely control other electronic devices, such as drapery motors, lighting systems, projection equipment, slide projectors, **amplifiers**, and CD players. Total control of virtually any electronic device, infrared or radio frequency, hard...Mullin/Sam Wenzel

Manufacturer of professional and broadcast audio equipment since 1979. Noted for quality **microphone amplifiers** along with headphone amps, small mixers, IHF-PRO interface **amplifiers**. Distribution of **amplifiers** and **microphone** audio processors.

ATM FLY-WARE
21000 S. Wilmington Ave., Carson, CA 90810

310-834-5914...Fri
Manufacturer of pneumatic and hydraulic components such as valves, cylinders, presses, vacuum pumps, manifolds **filters**, regulators, and lubricators. Cylinders vary from 3/8" to 5" bore. Valves are available 3 ...9:00AM - 6:00PM, Mon - Fri

Manufacturer of a complete line of glass lenses and **filters** (tempered and heat strengthened) including prismatic, dichroic, UV control,

Hours: 8:00AM - 4:00PM, Mon - Fri

Discount mail-order house specializing in wireless **microphone** systems for live entertainment, sound reinforcement and video applications. The product line also includes advanced...of applications, including concert tour sound, studio recording, theatre, broadcast, as well as JBL/UREI **amplifiers** and signal processing equipment.

JCN

PO Box 9986, Oakland, CA 94613

800-638-6907 510...theatres, schools, churches, bands and DJs. Microcomputer technology allows feature-loaded hand and foot-operated **memory** controllers. Heavily **filtered** dimmers in truss and rack mount versions and DIM-BARS (dimmer/crossbar) allow dimmer or...Hours: 8:00AM - 6:00PM, Mon - Sat

Lighting rental shop, lighting and production, electronic and **logic** design and repair.

KRK MONITORING SYSTEMS

80 Sea Ln., Farmingdale, NY 11735

516-249-1399...company has recently branched into the field of multimedia with a complete line of computer **speakers**, accessories, and boom **microphone** stereophones.

KOTO ELECTRIC CO., LTD.*

Fujita Est. Bldg., 5th Fl., 1-4-8 Ueno, Taito...and effects for stage and discotheque. Wide range of PAR projects with or without color **filter** frame. Elevators, fog, snow, and bubble machines.

L & E RENTALS*

Market St. Ind. Park, Wappingers...

12/3,K/7 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

05832300 SUPPLIER NUMBER: 12045426 (USE FORMAT 7 OR 9 FOR FULL TEXT)
New processes to spawn next-generation of analog, mixed-signal, power ICs.
(integrated circuits) (1992 Technology Forecast: Mixed-Signal ICs)

Goodenough, Frank

Electronic Design, v40, n1, p59(9)

Jan 9, 1992

ISSN: 0013-4872

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 6218 LINE COUNT: 00486

... supplier's goal is to own all of the silicon between the antenna and the **microphone** or **speaker** of a cellular telephone. RF chips will go into upcoming digital cordless telephones, advanced modems...From a process point of view, it will be interesting to compare the op amps, **comparators**, and other devices coming from these two quite similar processes. Unlike digital ICs, as in...packing density. That is, these processes can build replacements for today's fast op amps, **comparators**, and other linear functions that draw an order-of-magnitude less current and operate on...

...new applications run off batteries, and many are mixed-signal ICs with significant amounts of **logic**. While finer-line lithography has never cut op-amp or **comparator** size by much because low-noise-input and current-handling output transistors are physically large...

...is, only one IC in about a million will not meet all of its guaranteed **data-sheet specification**. Obviously, that's mandatory for digital ICs, and highside switches for cars and other high...

...UHF-1 process sports an [f.sub.t] of 4 GHz.

For the most part, **amplifiers** built with these FETs won't require ultra-low bias currents, because source impedances will...

...of high-speed digital-to-analog converters, sensing the current from fast photodiodes, buffering the **storage** capacitor in high-speed sampling **amplifiers**, and fast analog switches when MOS-FETs aren't available.

Of all the advanced CB...8000). In addition, this truly modular, mixed-signal process furnishes 2-[micrometer] CMOS for dense **logic**, CMOS transistors rated at more than 75 V, and polysilicon-oxide-polysilicon capacitors for switched...

...circuits and programming their digital equivalents. One of the beta sites for the process builds **hearing aids**. The complete **hearing aid** is put on one chip, marking the first time digital filtering was used in this venue. The **filter**, a digital-signal processor, is user-and/or doctor-programmable in real time. And it...

...On the other hand, CB processes have been limited to purely linear circuits, such as **amplifiers**.

As the demands for ever more functions on one chip continue, an IC designer using...

...needed by the converter. Initially, ICs like the npn-only converters will use current-mode **logic** (CML) on chip, and interface to the digital world with ECL. It will be intriguing if the fast pnp transistors can also aid the **logic**-circuit designer.

Furthermore, CB processes will branch out in another direction. Versions will be developed...

...4 GHz, that aim at the RF applications mentioned earlier. Adding high-speed, dense, CMOS **logic** lends these technologies to ICs that were just recently considered members of the RF genre...still rages on today, yet available CMOS transistors have proven this message wrong. NCR has **comparators** working on 0.7-[micrometer] CMOS and expects to follow their digital-circuits migration...

...The company, a leader in applying the process to analog ICs, such as chopper-stabilized **amplifiers**, integrating ADCs, and power MOSFET drivers, expects to reduce gate lengths, which in turn will...

12/3,K/8 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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03134342 SUPPLIER NUMBER: 04967413 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Power supplies: selecting a power source. (1987 Electrical and Industrial Electronics Reference Issue)

Machine Design, v59, p112(13)

May 14, 1987

ISSN: 0024-9114

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 8116

LINE COUNT: 00693

... the voltage to a useable level, and a rectifier stage converts the ac to dc. **Filters** attenuate to manageable levels the ac components that

remain.

Batteries, however, generally power equipment that...voltage containing minimum ripple. For applications providing power for high-gain or low-power-level **amplifiers**, for example, power supplies should be chosen on the basis of an mVpp specification rather...voltage is developed on the IC and compared with the output voltage of an error **amplifier** in IC regulators. This **amplifier** has a low temperature drift to maintain good output-voltage stability with changing temperature. The error **amplifier** drives an output stage consisting of a Darlington pair. The chips also contain the necessary...are not rated in amperehours because efficiency varies with current drain, operating frequency, temperature, and **storage** conditions prior to use. And acceptable levels of cut-off voltage vary from one application...

...cells typically retain 90 to 95% of their fresh service life after one year of **storage** at 21°C. They retain 65 to 75% after four years. But salting away the...

...kept at low temperatures in their original cartons or wrapped in plastic. When removed from **storage**, they should remain in the package until they reach room temperature. Otherwise condensation can cause...

...their fresh service when stored one year at 21°C and 80% after four years. **Storage** at higher temperatures reduces battery life, but the effect is less severe than in carbon-zinc cells. **Storage** temperatures below 21°C maximize battery life, but the percentage of life saved generally makes it uneconomical to provide special low-temperature **storage**

Miniature alkaline batteries

Alkaline batteries in miniature packages are economical power sources for applications that...can be varied to tailor the cell to the application. The anode is zinc. For **hearing - aid** cells (slow drain, long life), highly alkaline potassium hydroxide is the electrolyte, selected to boost...

...for electrolyte. These batteries produce 2 V per cell and lose their charge slowly during **storage**. Shelf lives of several years at room temperatures are common. However, sealed lead-acid batteries...Model 4503 programmable amplitude and frequency ac voltage calibrator. Applications in meter calibration, low-level **amplifier** testing, transducer calibration, audio frequency simulation, strain gage simulation, and more are discussed. Sheet also covers design and operation features, calibrator capabilities, add-on **amplifier** units, dimensions, and price. Electronic Development Corp., 11 Hamlin St., Boston, MA 02127

High-voltage...

...batteries with resealable vents to control cell pressure and provide safe use. Characteristics and complete **specifications** are charted. Two **data** sheets summarize the features and technical data on Models PS-1265 and PS-12400 rechargeable...

...examples. Lambda Electronics Div., Veeco Instruments Inc., 515 Broad Hollow Rd., Melville, NY 11747

EMI **filter** source

Catalog 02A8612 presents an extensive collection of EMI **filters** in many styles. The 28-page guide illustrates power module **filters**, fused connector **filters**, super performance power module units, switching transient **filters**, PC board mounting **filters**, and several other types. Design guide discusses EMI noise origin and characteristics, **filter** selection, and custom services. Listings show **filters**, dimensional

diagrams, specifications, and schematics. "Surface Mounted Switching Power Supplies' introduces 20 to 40-W...

...offer detailed information on analog to digital converters, digital to analog units, sample and hold **amplifiers**, operational and other **amplifiers**, analog multiplexers, special function products, and data acquisition subsystems. Special sections introduce power supplies, dc...NY 11729

Lithium battery data

Four-page brochure presents lithium/chromium-oxide batteries for electronic **memory** backup, portable power, and real-time-clock applications. Long-term life characteristics, available sizes, lithium...

...Dr., Corpus Christi, TX 78410

Ferrite core features

The inherent features of ferrite cores for **filter** applications are the focus of a six-page color brochure. Discussion details variations in core...further detail to the PC board models, with special emphasis to design features, performance comparisons, **specifications**, and packaging. **Data** sheets diagram fuse dimensions and give complete technical data for various miniature types. Bussmann, Cooper...

...are summarized for quick reference. Charts emphasize analog to digital converters, digital to analog converters, **amplifiers**, synchro to digital converters with various tracking options, synchro to selsyn instruments, digital to synchro...

12/3,K/9 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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02825373 SUPPLIER NUMBER: 04244159 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Power supplies. (1986 Electrical and Industrial Electronics Reference Issue)

Machine Design, v58, p124(18)

May 15, 1986

ISSN: 0024-9114

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 8187 LINE COUNT: 00692

...wires for equipment in which switching power supplies are used often must be shielded and **filtered** to prevent propagating this electrical noise into sensitive circuits.

Thus, when regulated dc voltage is...10%.

Some power supply application--those providing power for high-gain or low-power-level **amplifiers** for example--require voltage containing minimum ripple. For such applications, power supplies should be chosen... voltage is developed on the IC and compared with the output voltage of an error **amplifier**. This **amplifier** has a low temperature drift to maintain good output-voltage stability with changing temperature. The error **amplifier** drives an output stage consisting of a Darlington pair. The chips also contain the necessary...wave soldering on PCBs. Lithium-iodide cells are widely used in cardiac pacemakers and for **memory** backup in a wide variety of other electronic apparatus.

Mercuric oxide

The zinc-mercuric oxide...

...be varied somewhat to tailor the cell to the application. The anode is zinc. For **hearing - aid** cell (slow drain, long life), highly alkaline potassium hydroxide is the electrolyte, selected to boost...

...for electrolyte. These batteries produce 2 V per cell and lose their charge slowly during **storage**. Shelf lives of several years at room temperatures are common. However, sealed lead-acid batteries...reliability, large vaneaxial fans for electronics cooling and ventilation are Catalog ROM5C13049 provides photographs, dimensional **data**, electrical and performance **specifications**, schematic drawings, and connection options for various models ranging from 4 to 13.5 in...

...five data sheets outline various power supply protection devices. Bulletin 985 introduces an active tracking **filter** for spike and transient voltage suppression. Printed circuit board model and prices for all models ...multi-output open-frame linears, and rack power systems. All products are listed with full **specifications** and mounting **data**. ACDC Electronics, 401 Jones Rd., Oceanside, CA 92054
Custom supplies
Custom-made multiple-output switching...

...121 International Dr., Corpus Christi, TX 78410
Electronic cooling units
Centrifugal blowers, fans, packaged blowers, **filter** grill panels, and related products are featured in Catalog 484. This eight-page listing gives...

...presented. Several product variations and packages are described in depth, including half-panel width blowers, **filter** box fans, shielded fan packages, military specification fans, and airflow switches. McLean Engineering Div., Zero...Catalog 146-1457 introduces a large selection of products, including linear modules switching modules, EMI **filters**, power supplies for laboratories, digital programmers, ferroresonant modules, and related products. This 148-page handbook...

...are featured. Data sheets detail design features, performance, specifications, insertion and removal, and proper selection. **Memory** Protection Devices Inc., 320 Broad Hollow Rd., Farmingdale, NY 11735

Lithium batteries
"Lithium Inorganic Batteries...
...and when not to use NiCd button cells. Other sections describe sealed cells, use for **memory** protection, charging and discharging, handling and **storage**, and various types. Varta Batteries Inc., 150 Clearbrook Rd., Elmsford, NY 10523

12/3,K/10 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01533534 SUPPLIER NUMBER: 12624295 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Tools of the trade: network testers for the end user set. (Tools & Test Equipment) (Buyers Guide)
Tucker, Tracey
Teleconnect, v10, n9, p130(6)
Sept, 1992
DOCUMENT TYPE: Buyers Guide ISSN: 0740-9354 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 3807 LINE COUNT: 00300

... line. To measure simple background noise in telecom systems with no active elements (such as **amplifiers**), a tester with a dB meter is used. At the test site, the line must...

...data were being transmitted. In this case, noise measurement requires the use of a notch **filter**, usually contained in the tester. The **filter** removes the tone, so you get an accurate reading of the true noise level.

Accurate...testing process, most protocol analyzers feature menu-driven prompts and automatic functions, such as automatic **configuration** to the **data** stream of a particular network.

There are a few things to consider when choosing a...niceties as speed dialing, last number redial, tone/pulse operation, audible ringer and an amplified **speaker**. The rugged tester is also moisture resistant for use in severe weather conditions. Acoustical shock protection, **hearing aid** compatibility and high voltage protection top off this tester's impressive feature roster.

To make...

...it has all the same features as the standard model). It can be used in **speaker** -only mode; regular handset mode; or in the speakerphone mode for easy, handsfree communication.

In...to proper parameters. Pre-programmed parameters can be stored in the unit's read-only **memory**. Printouts of detailed test results can also be provided.

The 51400 series tests: continuity; insulation...

...key sequences. You can also check for cross-connected wires, test ringers, buzzers and paging **amplifier** operations. Coin phone test options include coin collect, coin refund, tone generation and coin relay...

12/3,K/11 (Item 1 from file: 613)
DIALOG(R)File 613:PR Newswire
(c) 2005 PR Newswire Association Inc. All rts. reserv.

00265091 20000214DAM003 (USE FORMAT 7 FOR FULLTEXT)
Texas Instruments Announces Industry's First Dspcodec That Maximizes DSP Performance While Reducing Development Time by A Factor of Ten
PR Newswire
Monday, February 14, 2000 09:00 EST
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
DOCUMENT TYPE: NEWSWIRE
WORD COUNT: 856

TEXT:

...fits well in other applications, such as hands-free car kits, PBX phones and other **microphone** -based products. See <http://www.ti.com/sc/aap3579u>.

The TLV320AIC10 codec delivers 84 decibels...

...the 'C54x(TM) DSP. The interface software driver functionality includes DSP serial port configuration, codec **configuration**, DAC and ADC **data** transfer, and allows master/slave codec operation. This level of support eliminates customer design risk...

...Improved

The TLV320AIC10 integrates many standard analog functions to reduce system cost and board size. **Microphone** bias and a pre- **amplifier** (with 50dB maximum

gain) enable direct connection to standard electret **microphones** . Also included in the device are programmable gain **amplifiers** with -36 to +24 dB gain range, anti-aliasing **filter** , 2:1 analog multiplexor and power saving standby mode.

A Low Voltage I/O Alternative...

...UC5409 and 1.2V

'UVC5402 DSPs for use in low power applications, such as digital **hearing aids** .

Availability, Packaging and Pricing

The TLV320AIC10 is available now from TI and its authorized distributors...

...000 customers in the computer, wireless communications, networking, Internet, consumer, digital motor control and mass

storage markets worldwide. To help customers get to market faster, TI offers easy-to-use development...

12/3,K/12 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04690651 Supplier Number: 62731429 (USE FORMAT 7 FOR FULLTEXT)

Mitel announces industry's first Bluetooth chip with full-duplex CODEC --

New baseband controller maximizes voice quality in emerging Bluetooth applications.

M2 Presswire, pNA

June 14, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 865

... Quality of Service (QoS), performance, cost and power consumption."

Bluetooth is a widely supported industry **specification** for a wireless **data** link that allows short-range transmission of voice and data within and between electronic devices...Firefly embedded microcontroller core, Mitel's Bluetooth Baseband Peripheral (BBP) block, an audio CODEC, program **memory** , and USB and UART host ...full software protocol stack up to the HCI level.

The MT1020's CODEC includes a **microphone amplifier** , earpiece driver and **filter** compliant to the ITU-T G.712 standard. With its extremely low power consumption, the...Internet systems; and applications-specific integrated circuits (ASICs) for medical applications such as pacemakers and **hearing aids** .

Mitel is a growing global provider of converging voice and data systems and applications, and...

?

13/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01369850 SUPPLIER NUMBER: 08755448 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A guide to help you buy. (key systems) (buyers guide)
Teleconnect, v8, n8, p104(21)
August, 1990
DOCUMENT TYPE: buyers guide ISSN: 0740-9354 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 12617 LINE COUNT: 00992

... button Hands-free Answer on Intercom (HFAI) sets or the flagship
34-button Built-In **Speaker** -phones (BIS). The Merlin multi-line cordless
is another intriguing option.

1990's Merlin Plus...

...When you're on a call, the receptionist "soft calls" you through your
built-in **speaker** and alerts you of a call. By hitting a button, a
recorded voice will advise...multi-line phone with eight programmable
feature keys. The Call Announce set gives you a **speaker**, message waiting
light and a 12-button dial. A Handsfree Speakerphone gives you a handsfree
...

...redundancy's sake, the Cortelco ECS customer database can be copied to a
back-up **memory**. You can employ either one or two attendant consoles. And
yes, Ophelia, these ECS systems...fortified their SmarTalks for the '90s,
with music on hold capabilities and ringing through external **speakers**.

Eagle

Eagle/One Min/Max Phones: 1;63 Min/Max Lines: 1;64 Technology: Analog

...a top proprietary set. This phone boasts last number redial,
programmable buttons and an external **speaker**, for crisper sound quality.
It can access such features as group call pickup, ACD operation...
CT10/20/30.

The leader of this new breed, the CT30, provides 34 buttons, a
speaker and a whopping two-line by 20-digit display. Dual LEDS, offhook
call announce and...The list of possible peripherals also includes external
ringers, a printer or an external paging **amplifier**.

The Keystar 616 boasts some prodigious cost cutting capabilities. You
get toll restriction, pooled line...

...bit. Handsfree reply lets you conduct all of your intercom calls from a
built-in **speaker**.

A clever alphanumeric messaging capability enables two of you to send
and receive missives over...

...is one of the smallest voice/data switches around. Both voice-only or
simultaneous voice/ **data configurations** are available.

The MT-80D covers all the station-set bases. It provides single line
...telephone line buttons with two-color LED indications. It also gives you
a built-in **microphone** and **speaker**, an oversized alphanumeric display
and one-touch feature access. Like all Optima telesets, the DX...

...The Panther 11 comes with 14 keys for messaging programming and
conferencing and a handsfree **speaker**. Its prodigious LCD can bold up to
32 characters.

For Centrex and behind-PBX use...24 programmable key/lamp pairs. This
set also gives you standard handsfree operation, wall mount, **speaker** and
volume adjust. (Key system roundup part 2)

Northwestern Bell

Integra Hybrid System Min/Max...six different volume levels. When you hit the volume control key during a call, the **speaker** level is adjusted just for that call. When you press both keys simultaneously, the current...

...Sanyo signature feature, enables users to change the number harbored in the last number redial **memory**, even if they're on the phone. There's even a handset wall hook to...for bulky power transformers. Other features include variable flash timing, executive override and power fail **memory** protection.

The Plus Five Enhanced station set is a 5x12 line answering console for Centrex...

...crystal display, which shows a clock and the last number dialed. It is also fully **hearing - aid** compatible.

Southwestern Bell

FS 246 Key System Min/Max Phones:-4;16 Min/Max Lines...eight-station DSS intercom. Both have LED displays to verify the number dialed and the **memory** content. There are also buttons to access PBX/Centrex feature codes and frequently dialed numbers...

...of them can perform quite comfortably with standard single-line phones or other feature phones.

Microphone auto-level switching on speakerphones give you crisp acoustical response. And a fully modular keypad...

?